Color Television

TP3697B1

Instructions for use

YEAR 2000 READY

Let's make things better.

PHILIPS MAGNAVOX

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS MAGNAVOX purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS MAGNAVOX product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS MAGNAVOX warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

REGISTRATION NEEDED WITHIN 10 DAYS

PHILIPS MAGNAVOX **Hurry!**

Congratulations on your **purchase,**
and welcome to the **"family!"**

PHILIPS MAGNAVOX

Dear PHILIPS MAGNAVOX product owner:

Thank you for your confidence in PHILIPS MAGNAVOX. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome–and thanks for investing in a PHILIPS MAGNAVOX product.

Sincerely,

Robert Minkhorst
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS MAGNAVOX product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these **safety***symbols*

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

⚠ This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

⚠ The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

PHILIPS MAGNAVOX *Visit our World Wide Web Site at http://www.philipsmagnavox.com*

SAFETY INSTRUCTIONS - Read before operating equipment

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. **Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** - All operating and use instructions should be followed.
5. **Water and Moisture** - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
6. **Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.

6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

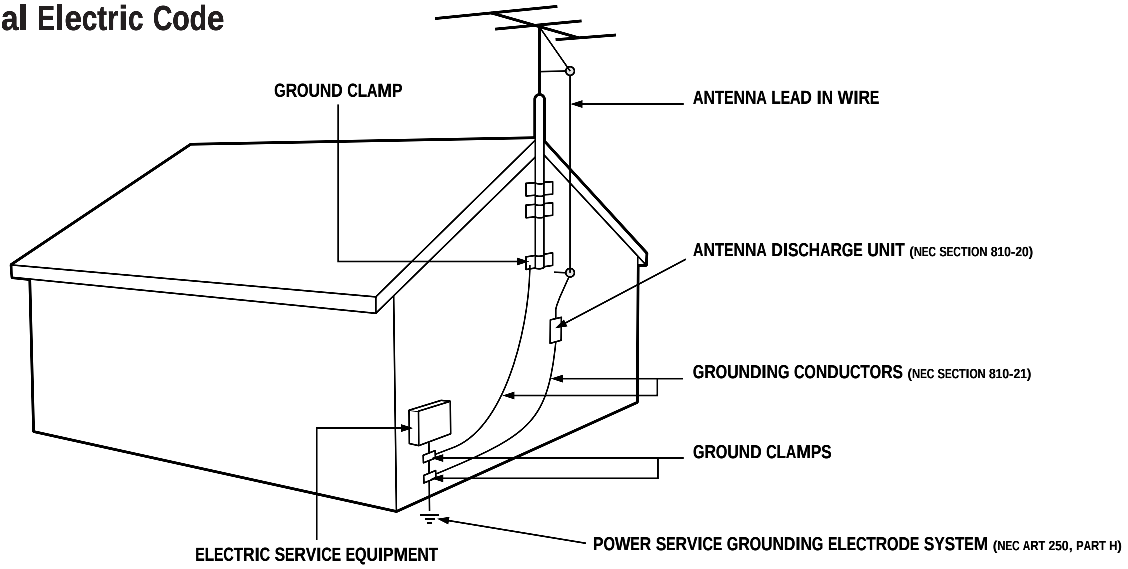
6B. Tilt/Stability - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
- Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
- Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.

7. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Power-Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
12. **Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
13. **Power Lines** - An outdoor antenna should be located away from power lines.
14. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

    Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mats and supporting structure grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Fig. below.
15. **Non-use Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
17. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
    - **A.** The power supply cord or the plug has been damaged; or
    - **B.** Objects have fallen, or liquid has been spilled into the appliance; or
    - **C.** The appliance has been exposed to rain; or
    - **D.** The appliance does not appear to operate normally or exhibits a marked change in performance; or
    - **E.** The appliance has been dropped, or the enclosure damaged.
18. **Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of Antenna Grounding as per NEC - National Electric Code


GROUND CLAMP
ANTENNA LEAD IN WIRE
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
ELECTRIC SERVICE EQUIPMENT
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

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FEATURES

Infrared Remote Control works your TV set, VCR, and a variety of wireless remote control Cable Converters (Satellite Receivers, DVD, etc.).

Standard broadcast (VHF/UHF) or Cable TV (CATV) channel capability.

Stereo Ready TV with built-in audio amplifier and twin speaker system for receiving TV programs broadcast in stereo sound.

Closed Captioning allows the viewer to read TV program dialogue or voice conversations as onscreen text.

Automatic Programming of Channels for quick and easy selection of favorite stations available in your area.

Onscreen Features (in either English, French, or Spanish) show helpful messages for setting of TV controls.

Audio/Video Jackpanel for direct connections with VCRs (or other video accessories) providing quality TV picture and sound playback.

Twin Antenna (A/B) Inputs for easy displaying of two separate signal sources on the TV. An A/B button on the remote control switches the TV's Main screen between the two Antenna (A & B) Input options.

Surround Sound external speaker connections allow you hook your TV to external audio equipment for more dynamic sound replay and audio effects.

On Timer automatically turns the TV ON at a preset time, and channel.

Sleep-Timer automatically turns the TV OFF at preset times.

SmartLock feature allows you to block the viewing of certain channel or external audio/video connections were you might not want your children viewing inappropriate material.

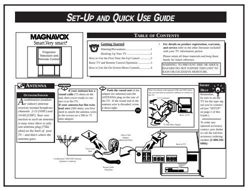
SmartPicture allows you to change the picture settings (color, tint, contrast, etc.) for various types of programming, such as Sports, Movies, Multimedia (Games), or Weak Signals, with the push of one button.

SmartSound controls the sudden volume changes during program changes and commercials. It eliminates the peaks and valleys in the TV's sound and creates one pleasant listening level. You also may tailor the SmartSound setting to the type of program you are watching (Music, Theatre, etc.).

Picture-In-Picture (PIP) allows you view to different programs (or picture sources) on the TV screen at the same time. PIP will also let you swap the pictures, move the PIP picture to any of the four corners, and even freeze the picture until you shut it off.

SET-UP AND QUICK USE GUIDE

Use the simple Set-Up Guide (supplied with your TV information packet) for details on:



- Cable/Antenna Hook-ups
- Auto-Programming of Channels
- Channel Editing
- Automatic Clock Setting (Smart Clock)
- Basic TV and Remote Control Operation
- onscreen Menu Use

NOTE: This owner's manual content is used with several different television models. Not all features (and drawings) discussed in this manual will necessarily match those found with your television system. This is normal and does not require you contacting your dealer or requesting service.

END-OF-LIFE DISPOSAL

Your new television and its packing contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts which need to be properly disposed.

Your product also uses batteries which should not be thrown away when depleted, but should be disposed of as small chemical waste.

Please find out about the local regulations on how to dispose of your old television, batteries, and packing materials whenever you replace existing equipment.

HOW TO ADJUST THE TV PICTURE

To adjust your TV picture controls, select a channel and follow the steps shown below:

BEGIN

1 **Press the MENU button** on the remote to show the on-screen menu. **Press the CURSOR DOWN ■ button** on the remote to highlight the word **PICTURE.**

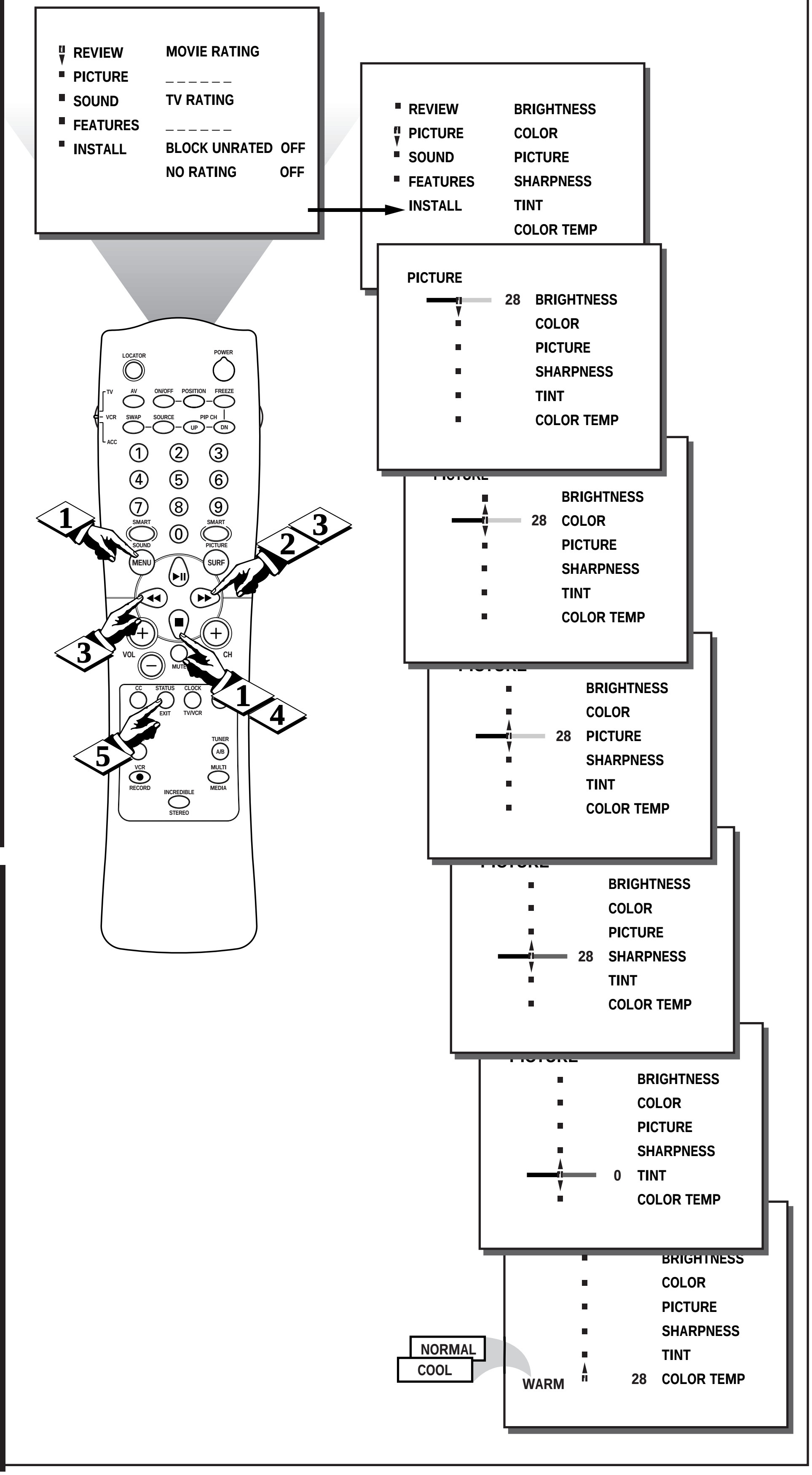
2 **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the right to display an adjustment bar in front of the **BRIGHTNESS** control.

3 **Use the CURSOR LEFT ◀◀ or RIGHT ▶▶ buttons** to adjust the **BRIGHTNESS** level of the picture.

4 After adjusting the BRIGHTNESS control, **press the CURSOR DOWN ■ button** to select another Picture adjustment: **COLOR, PICTURE, SHARPNESS, TINT, or COLOR TEMP.** Use the **CURSOR LEFT ◀◀** or **CURSOR RIGHT ▶▶ buttons** to adjust the selected control.

5 **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP


REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
_ _ _ _ _ _
TV RATING
_ _ _ _ _ _
BLOCK UNRATED OFF
NO RATING OFF
REVIEW
PICTURE
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FEATURES
INSTALL
BRIGHTNESS
COLOR
PICTURE
SHARPNESS
TINT
COLOR TEMP
PICTURE
28 BRIGHTNESS
COLOR
PICTURE
SHARPNESS
TINT
COLOR TEMP
28 COLOR
28 PICTURE
28 SHARPNESS
0 TINT
28 COLOR TEMP
NORMAL
COOL
WARM
LOCATOR
POWER
TV
AV
ON/OFF
POSITION
FREEZE
VCR
SWAP
SOURCE
PIP CH
UP
DN
ACC
1 2 3 4 5 6 7 8 9 0
SMART
SOUND
SMART
PICTURE
MENU
SURF
VOL
CH
MUTE
CC
STATUS
CLOCK
EXIT
TV/VCR
TUNER
A/B
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO
1
2
3
3
1
4
5

SMART HELP

Remember, when the bar scale is centered, the control settings are at normal mid-range levels.

BRIGHTNESS **Press the ▶▶ or ◀◀** buttons until darkest parts of the picture are as bright as you prefer.

COLOR **Press the ▶▶ or ◀◀** buttons to add or eliminate color.

PICTURE **Press the ▶▶ or ◀◀** buttons until lightest parts of the picture show good detail.

SHARPNESS **Press the ▶▶ or ◀◀** buttons to improve detail in the picture.

TINT **Press the ▶▶ or ◀◀** buttons to obtain natural skin tones.

COLOR TEMP **Press the ▶▶ or ◀◀** buttons to select NORMAL, COOL, or WARM picture preferences. (NORMAL will keep the whites, white; COOL will make the whites, bluish; and WARM will make the whites, reddish.)

SETTING THE TV'S CLOCK

Your television comes with an onscreen clock. During normal operation the clock appears on the screen when the STATUS/EXIT button is pressed or if the Timer DISPLAY control is turned ON.

BEGIN

1 **Press the MENU button** on the remote to show the onscreen menu.

2 **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

3 **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left to display the **TIMER** controls.

4 **Press the CURSOR RIGHT ▶▶ button again** to shift the display left and highlight the **TIME** control.

5 **Press the CURSOR RIGHT ▶▶ button again** to highlight the time indicator area.

6 **Press the NUMBERED buttons** to enter the correct time. *(Use the **CURSOR UP ▶** or **CURSOR DOWN ■** buttons to set **AM** or **PM**.)*

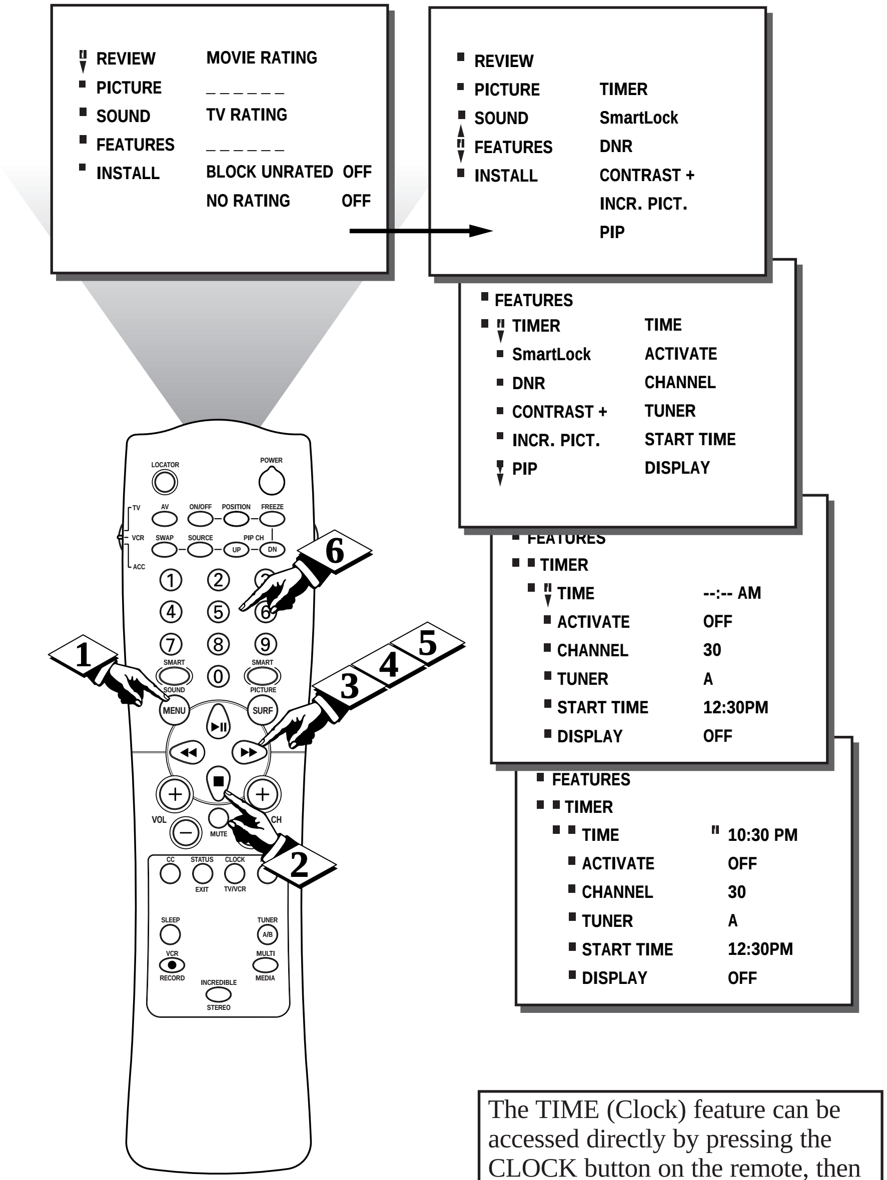
STOP

SMART HELP

Remember, be sure to press "0" first and then the hour number for single digit entries.

The Clock can also be set automatically using the Smart Clock feature found on page 2 of the Quick Use Guide.

The television's clock settings may be lost when it is unplugged (or AC power to the set is interrupted.)


REVIEW
PICTURE
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INSTALL
MOVIE RATING
TV RATING
BLOCK UNRATED OFF
NO RATING OFF
REVIEW
PICTURE
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FEATURES
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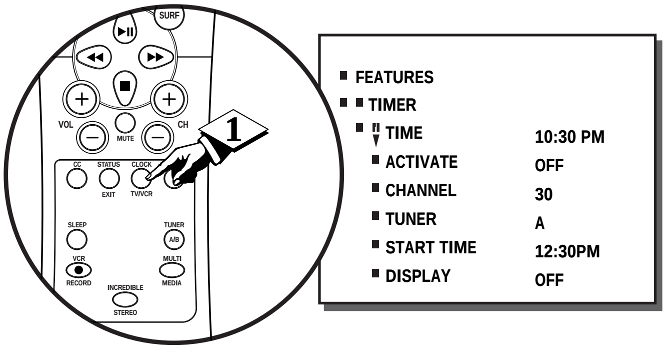
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
FEATURES
TIMER
TIME --:-- AM
ACTIVATE OFF
CHANNEL 30
TUNER A
START TIME 12:30PM
DISPLAY OFF
FEATURES
TIMER
TIME 10:30 PM
ACTIVATE OFF
CHANNEL 30
TUNER A
START TIME 12:30PM
DISPLAY OFF
1
2
3
4
5
6
MENU
SURF

The TIME (Clock) feature can be accessed directly by pressing the CLOCK button on the remote, then simply follow steps 5 and 6 to complete the task.


1
CLOCK
FEATURES
TIMER
TIME 10:30 PM
ACTIVATE OFF
CHANNEL 30
TUNER A
START TIME 12:30PM
DISPLAY OFF

ACTIVATING THE TV'S ON TIMER CONTROL

Just like an alarm clock you can set the TV to turn itself on at the same time everyday.

BEGIN

1. **Press the MENU button** on the remote to show the onscreen menu.

2. **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left to display the **TIMER** controls.

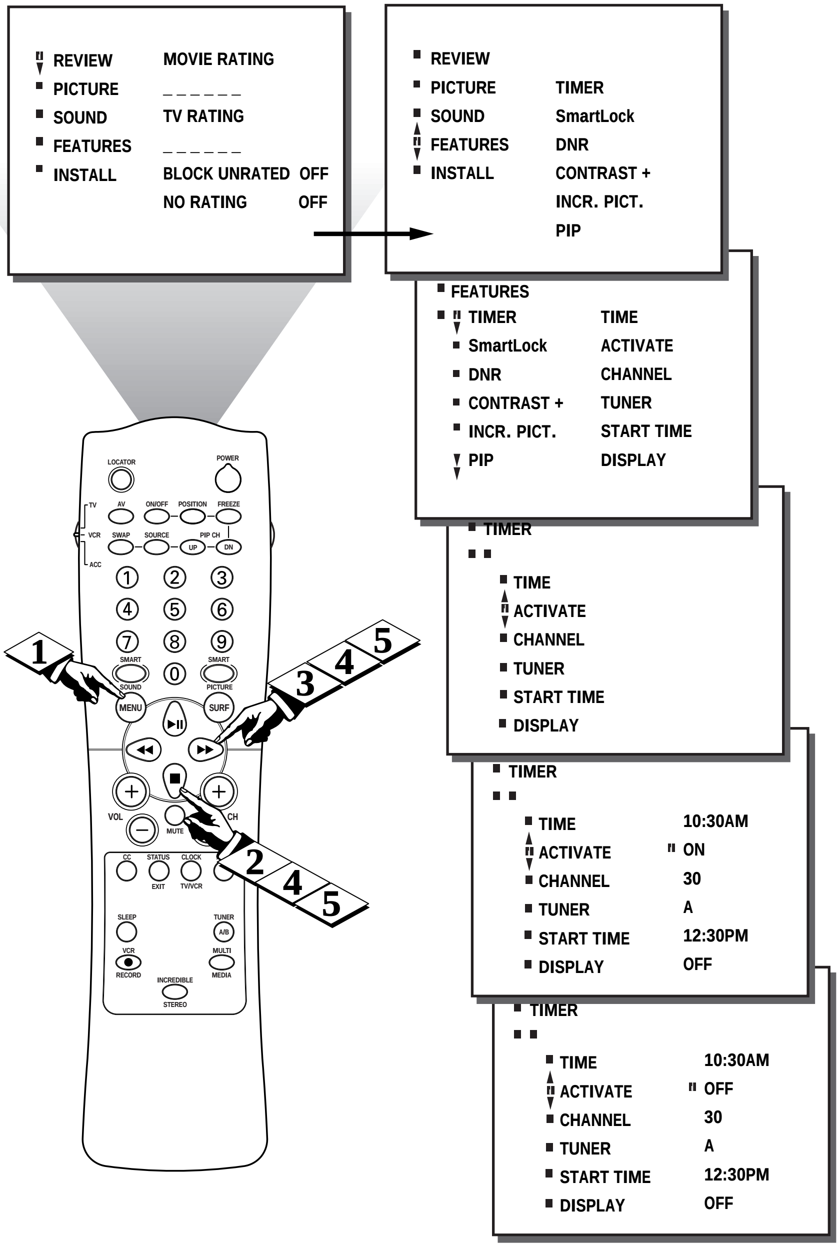
4. **Press the CURSOR RIGHT ▶▶ button again** to shift the display left, then **CURSOR DOWN** ■ to highlight the **ACTIVATE** timer control.

5. **Press the CURSOR RIGHT ▶▶ button again** to highlight the ACTIVATE timer option. Then, press the CURSOR UP ▶ or CURSOR DOWN ■ buttons to turn the timer ON or OFF.

STOP

SMART HELP

Remember, be sure to set the time you want the television to turn on using the START TIME control as described on page 10.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PIP
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
TIMER
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
TIMER
TIME 10:30AM
ACTIVATE ON
CHANNEL 30
TUNER A
START TIME 12:30PM
DISPLAY OFF
TIMER
TIME 10:30AM
ACTIVATE OFF
CHANNEL 30
TUNER A
START TIME 12:30PM
DISPLAY OFF
1
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4
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2
4
5
LOCATOR
POWER
TV
VCR
ACC
AV
ON/OFF
POSITION
FREEZE
SWAP
SOURCE
PIP CH
UP
DN
SMART
SOUND
SMART
PICTURE
MENU
SURF
VOL
CH
MUTE
CC
STATUS
CLOCK
EXIT
TV/VCR
SLEEP
TUNER
A/B
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO

SELECTING THE TV'S ON TIMER CHANNEL

Used along with the on timer feature, you can select a specific channel that the television will tune to when the Timer ACTIVATE control is turned ON.

BEGIN

1. **Press the MENU button** on the remote to show the onscreen menu.

2. **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left to display the **TIMER** controls.

4. **Press the CURSOR RIGHT ▶▶ button again** to shift the display left, then **CURSOR DOWN ■** to highlight the **CHANNEL** control.

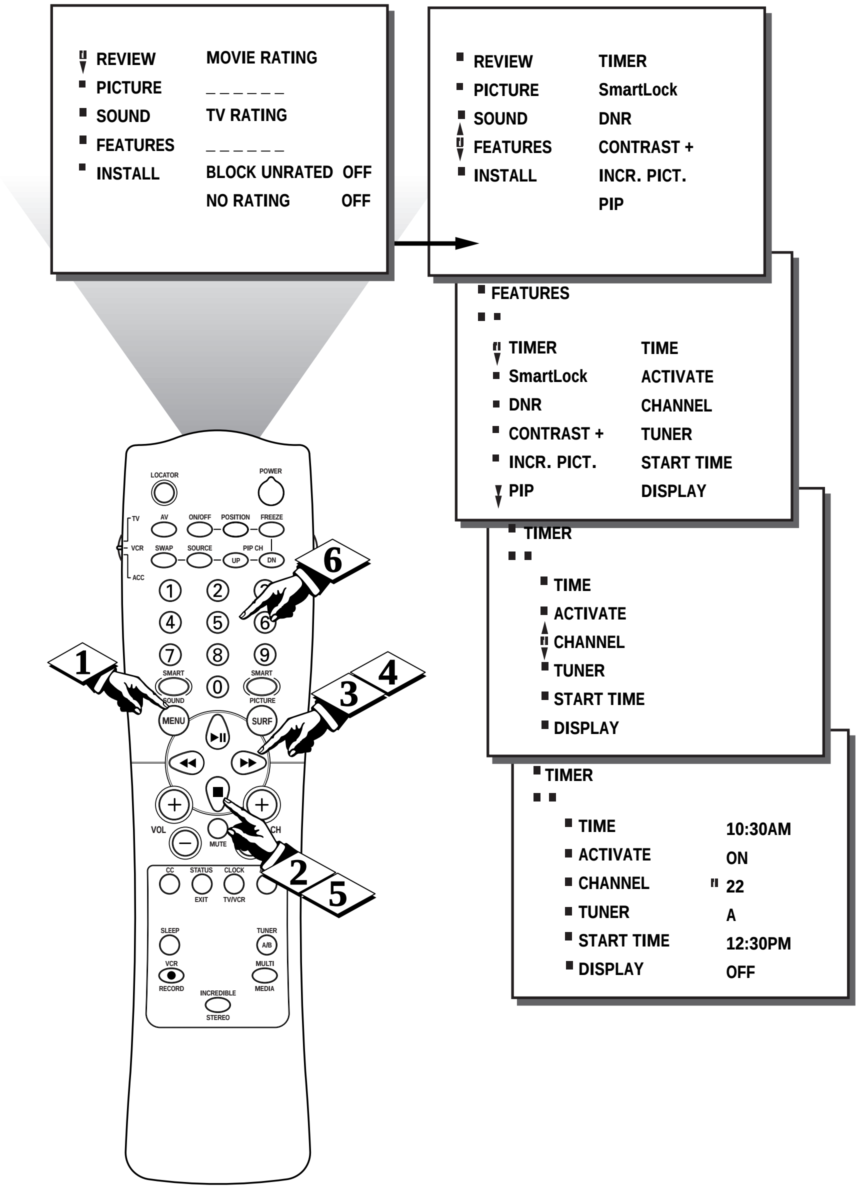
5. **Press the CURSOR RIGHT ▶▶ button again** to highlight the channel indicator area.

6. **Press the NUMBERED buttons** to enter the desired start up channel. *(Or, use the **CHANNEL (+) or (–)** buttons to select the desired channel.)*

STOP

SMART HELP

Remember, be sure to turn the Timer ACTIVATE control ON after selecting the desired start up channel. *(Refer to page 8 for further details.)*



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PIP
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
TIMER
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
TIMER
TIME 10:30AM
ACTIVATE ON
CHANNEL 22
TUNER A
START TIME 12:30PM
DISPLAY OFF
1
2
3
4
5
6
LOCATOR
POWER
TV
VCR
ACC
AV
ON/OFF
POSITION
FREEZE
SWAP
SOURCE
PIP CH
UP
DN
SMART
SOUND
SMART
PICTURE
MENU
SURF
VOL
CH
MUTE
CC
STATUS
CLOCK
EXIT
TV/VCR
SLEEP
TUNER
A/B
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO

SETTING THE TV'S ON TIMER TUNER

Your TV is equipped with two tuners. The TV can be programmed to tune to either ANT A or PIP ANT B when the on timer is set.

BEGIN

1. **Press the MENU button** on the remote to show the onscreen menu.

2. **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left to display the **TIMER** controls.

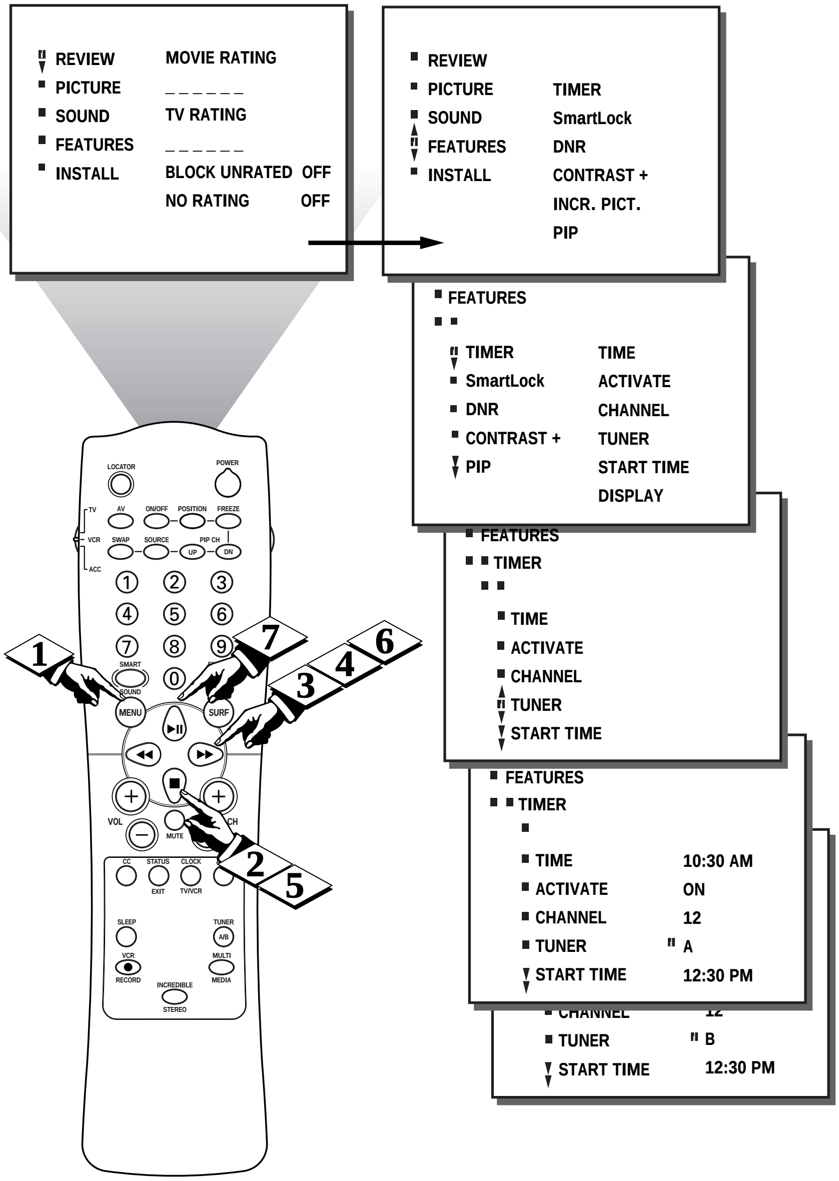
4. **Press the CURSOR RIGHT ▶▶ button again** to shift the display left.

5. **Press the CURSOR DOWN ■** to highlight the **TUNER** control.

6. **Press the CURSOR RIGHT ▶▶ button again** to highlight the TUNER A or B control options.

7. **Press the CURSOR UP ▶ or CURSOR DOWN ■** buttons to select the "A" or "B" tuner inputs.

STOP



REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
TV RATING
BLOCK UNRATED OFF
NO RATING OFF
REVIEW
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TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
PIP
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
FEATURES
TIMER
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
FEATURES
TIMER
TIME 10:30 AM
ACTIVATE ON
CHANNEL 12
TUNER A
START TIME 12:30 PM
CHANNEL 12
TUNER B
START TIME 12:30 PM
1
2
3
4
5
6
7
LOCATOR
POWER
TV
AV
ON/OFF
POSITION
FREEZE
VCR
SWAP
SOURCE
PIP CH
UP
DN
ACC
SMART
SOUND
MENU
SURF
VOL
CH
MUTE
CC
STATUS
CLOCK
EXIT
TV/VCR
SLEEP
TUNER
A/B
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO

SETTING THE TV'S ON TIMER START TIME

Used along with the on timer feature, you can select a specific time the television will turn on when the Timer ACTIVATE control is turned ON.

BEGIN

1 **Press the MENU button** on the remote to show the onscreen menu.

2 **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

3 **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left to display the **TIMER** controls.

4 **Press the CURSOR RIGHT ▶▶ button again** to shift the display left, then **CURSOR DOWN ■** to highlight the **START TIME** control.

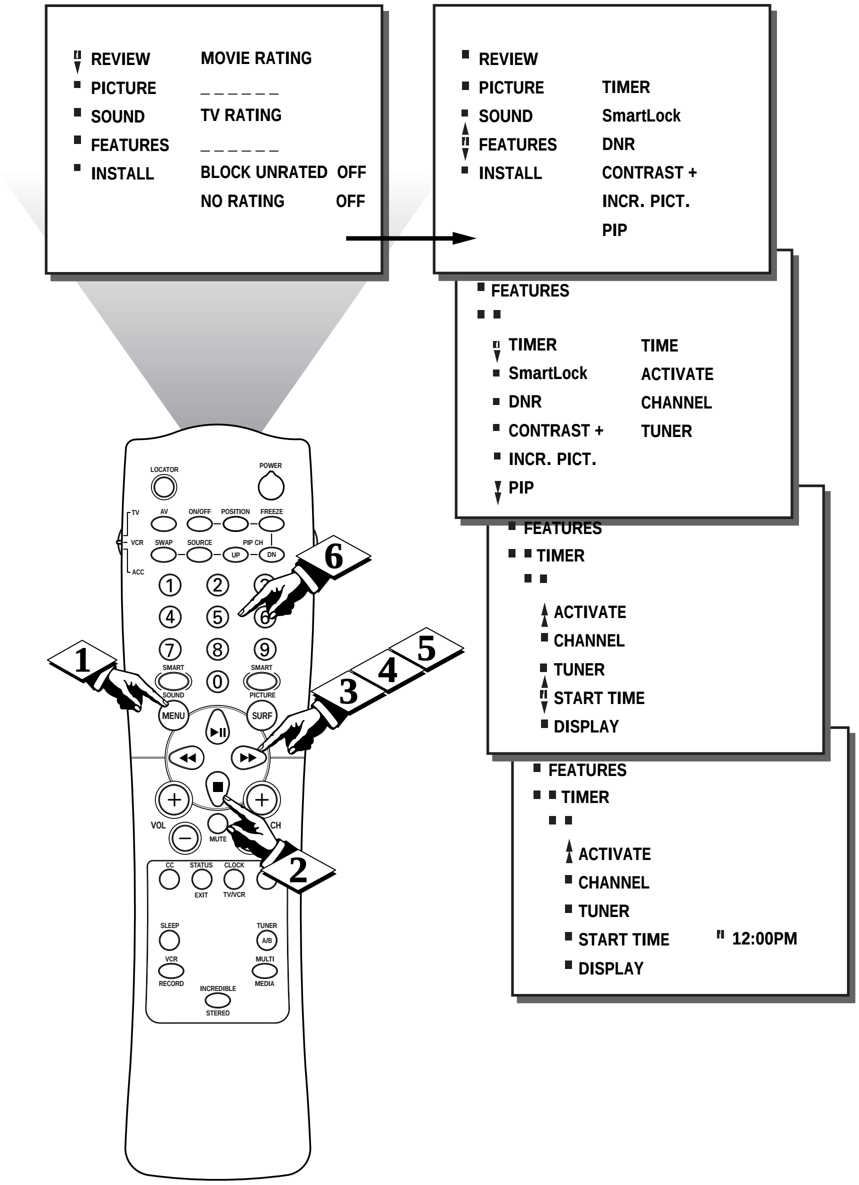
5 **Press the CURSOR RIGHT ▶▶ button again** to highlight the time indicator area.

6 **Press the NUMBERED buttons** to enter the desired start up time. *(Use the **CURSOR UP** ▶ or **CURSOR DOWN** ■ buttons to set **AM** or **PM**.)*

STOP

SMART HELP

Remember, be sure to turn the Timer ACTIVATE control ON after setting the desired start up time. *(Refer to page 8 for further details.)*



REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
TV RATING
BLOCK UNRATED OFF
NO RATING OFF
REVIEW
PICTURE
SOUND
FEATURES
INSTALL
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
TIME
ACTIVATE
CHANNEL
TUNER
FEATURES
TIMER
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
FEATURES
TIMER
ACTIVATE
CHANNEL
TUNER
START TIME
12:00PM
DISPLAY
1
2
3
4
5
6
LOCATOR
POWER
TV
VCR
ACC
AV
ON/OFF
POSITION
FREEZE
SWAP
SOURCE
PIP CH
UP
DN
SMART
SOUND
SMART
PICTURE
MENU
SURF
VOL
CH
MUTE
CC
STATUS
CLOCK
EXIT
TV/VCR
SLEEP
TUNER
A/B
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO

SETTING THE TV'S ON TIMER DISPLAY

Once the television clock has been set, you can use your television as a clock. The Timer DISPLAY control allows you to permanently display the time in the upper right corner of the screen.

BEGIN

1 **Press the MENU button** on the remote to show the onscreen menu.

2 **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

3 **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left to display the **TIMER** controls.

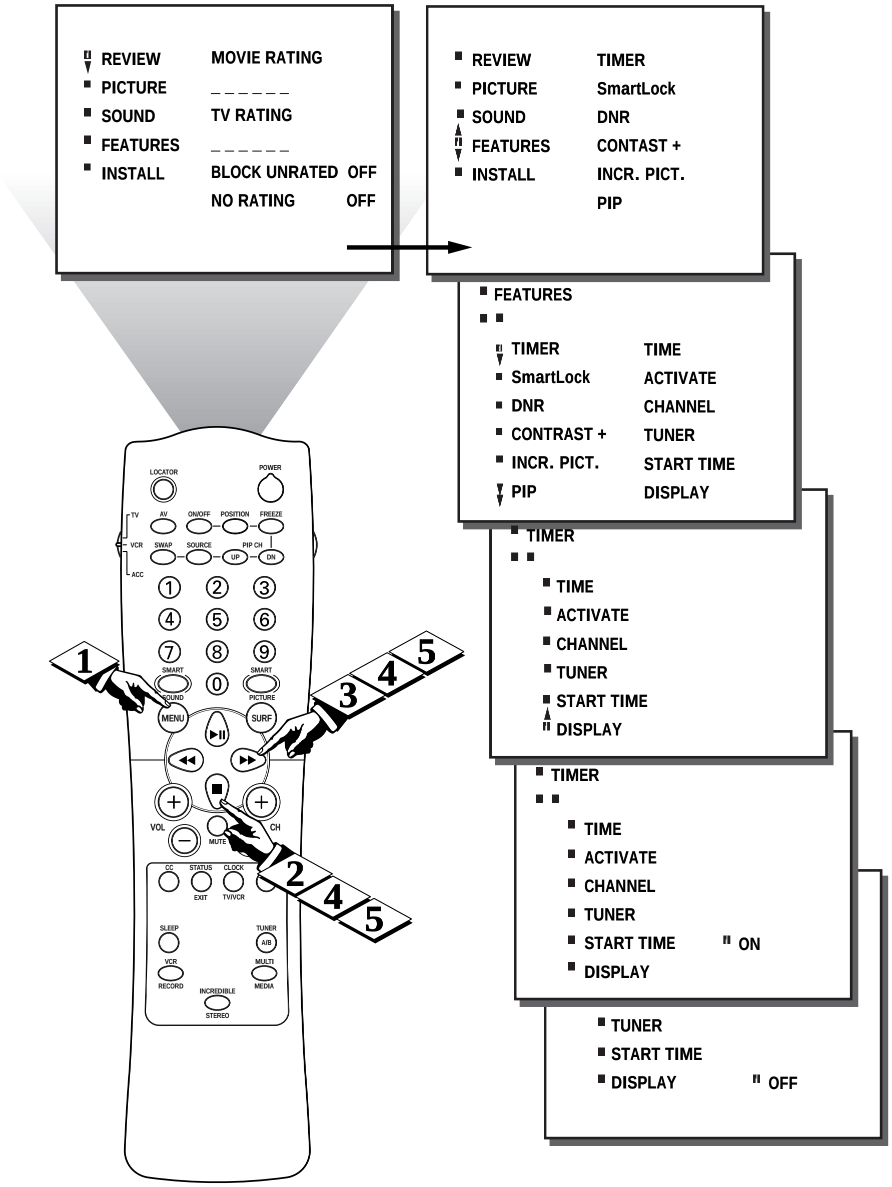
4 **Press the CURSOR RIGHT ▶▶ button again** to shift the display left, then **CURSOR DOWN ■** to highlight the **DISPLAY** control.

5 **Press the CURSOR RIGHT ▶▶ button again** to highlight the DISPLAY control options. Then, press the CURSOR UP ▶ or CURSOR DOWN ■ buttons to turn the timer ON or OFF.

STOP

SMART HELP

Remember, be sure you have set the television's clock with the correct current time. *(Refer to page 7 to set the Clock Manually or page 4 of the Quick Use Guide to set the Clock Automatically using the Smart Clock feature.)*


REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
TV RATING
BLOCK UNRATED OFF
NO RATING OFF
TIMER
SmartLock
DNR
CONTAST +
INCR. PICT.
PIP
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
TIMER
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
TIMER
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
ON
TUNER
START TIME
DISPLAY
OFF
1
2
3
4
5
4
5
MENU
SURF
VOL
CH
MUTE

UNDERSTANDING SMARTLOCK

The SmartLock feature receives and processes data sent by broadcasters, or other program providers, that contain program content advisories. When programmed by the viewer, a TV with SmartLock can respond to the content advisories and block program content that may be found objectionable (such as offensive language, violence, sexual situations, etc.). This is a great feature to censor the type of programming children may watch.

***Over the next few pages, you'll learn how to block channels** and certain rated programming, as well as learn to turn these blocking features on or off. Below is a brief explanation of some terms and ratings you will find in the SmartLock feature.*

SmartLock offers various Blocking Options from which to choose:

BLOCKING: This is what might be called the "master switch" for SmartLock. When BLOCKING is OFF, ALL blocking/censoring is disabled. When BLOCKING is ON, ALL blocking based on specific settings will take place.

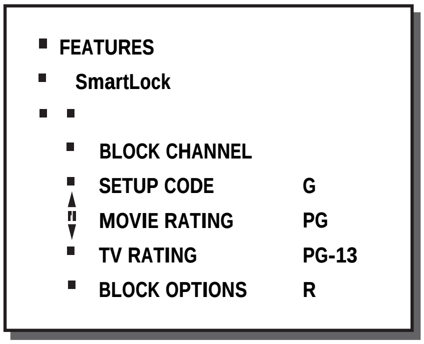
BLOCK UNRATED: ALL unrated programs will be blocked if this feature is set to ON.

UNRATED programming is encoded with information from the MPAA or TV broadcasters, but it does not have a specific rating. In other words, the MPAA or the TV broadcasters have chosen not to assign a rating to the programming.

NO RATING: ALL programming with no content advisory data can be blocked if NO RATING is set to ON.

Programming that has No Rating is not encoded with any rating information from the MPAA or the Parental Guidelines. Any programming could fall into this category.

You also can block individual channels or block programming based on ratings of the MPAA and TV broadcasters. (See description of ratings on this page.)



```
■ FEATURES
■   SmartLock
■ ■
    ■ BLOCK CHANNEL
    ■ SETUP CODE        G
    ▲
    ▼ MOVIE RATING      PG
    ■ TV RATING         PG-13
    ■ BLOCK OPTIONS     R
```

MOVIE RATINGS

(MOTION PICTURE ASSOCIATION OF AMERICA)

G: General Audience - All ages admitted. Most parents would find this program suitable for all ages. This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.

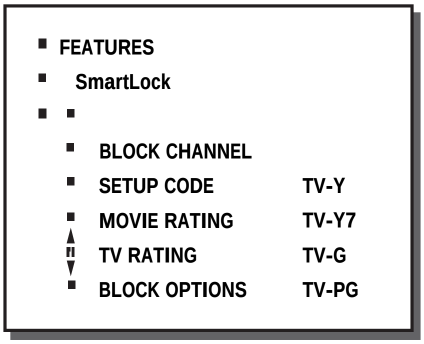
PG: Parental Guidance Suggested - This programming contains material that parents may find unsuitable for younger children. It may contain one or more of the following: Moderate violence, some sexual situations, infrequent coarse language, or some suggestive dialogue.

PG-13: Parents Strongly Cautioned - This programming contains material that parents may find unsuitable for children under the age of 13. It contains one or more of the following: violence, sexual situations, coarse language, or suggestive dialogue.

R: Restricted -This programming is specifically designed for adults. Anyone under the age of 17 should only view this programming with an accompanying parent or adult guardian. It contains one or more of the following: intense violence, intense sexual situations, strong coarse language, or intensely suggestive dialogue.

NC-17: No one under the age of 17 will be admitted. - This type of programming should be viewed by adults only. It contains graphic violence, explicit sex, or crude indecent language.

X: Adults Only - This type of programming contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, very coarse and intensely suggestive language.



```
■ FEATURES
■   SmartLock
■ ■
    ■ BLOCK CHANNEL
    ■ SETUP CODE        TV-Y
    ■ MOVIE RATING      TV-Y7
    ▲
    ▼ TV RATING         TV-G
    ■ BLOCK OPTIONS     TV-PG
```

TV PARENTAL GUIDELINES

(TV BROADCASTERS)

TV Y ***TV-Y*** - (**All children** -- *This program is designed to be appropriate for all children.*) Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.

TV Y7 ***TV-Y7*** - (**Directed to Older Children** -- *This program is designed for children age 7 and above.*) It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).

TV G ***TV-G*** - (**General Audience** -- *Most parents would find this program suitable for all ages.*) This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.

TV PG ***TV-PG*** - (**Parental Guidance Suggested** -- *This program contains material that parents may find unsuitable for younger children.*) This type of programming contains one or more of the following: Moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

TV 14 ***TV-14*** - (**Parents Strongly Cautioned** -- *This program contains some material that many parents would find unsuitable for children under 14 years of age.*) This type of programming contains one or more of the following: intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).

TV MA ***TV-MA*** - (**Mature Audience Only** -- *This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.*) This type of programming contains one or more of the following: graphic violence (V), explicit sexual situations (S), or crude indecent language (L).

USING SMARTLOCK - SETTING UP THE ACCESS CODE

SmartLock allows parents to block out or "censor" any channels they think children should not watch. A channel blocked by the SmartLock control cannot be viewed until a correct access code is used to unlock the channel for viewing. First let's set your SmartLock access code:

BEGIN

1 **Press the MENU button** on the remote to show the on-screen menu.

2 **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

3 **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left, then **CURSOR DOWN ■** to highlight the **SmartLock** control.

4 **Press the CURSOR RIGHT ▶▶ button again** to shift the display left.

5 **"Enter current access code"** will appear within the menu. **Press 0, 7, 1, 1 on the remote. "XXXX Code Correct"** will appear. **If you enter the wrong code, "XXXX Incorrect - Please re-enter access code" will appear.** Re-enter the 0, 7, 1, 1 code on the remote. "XXXX Code Correct" will appear.

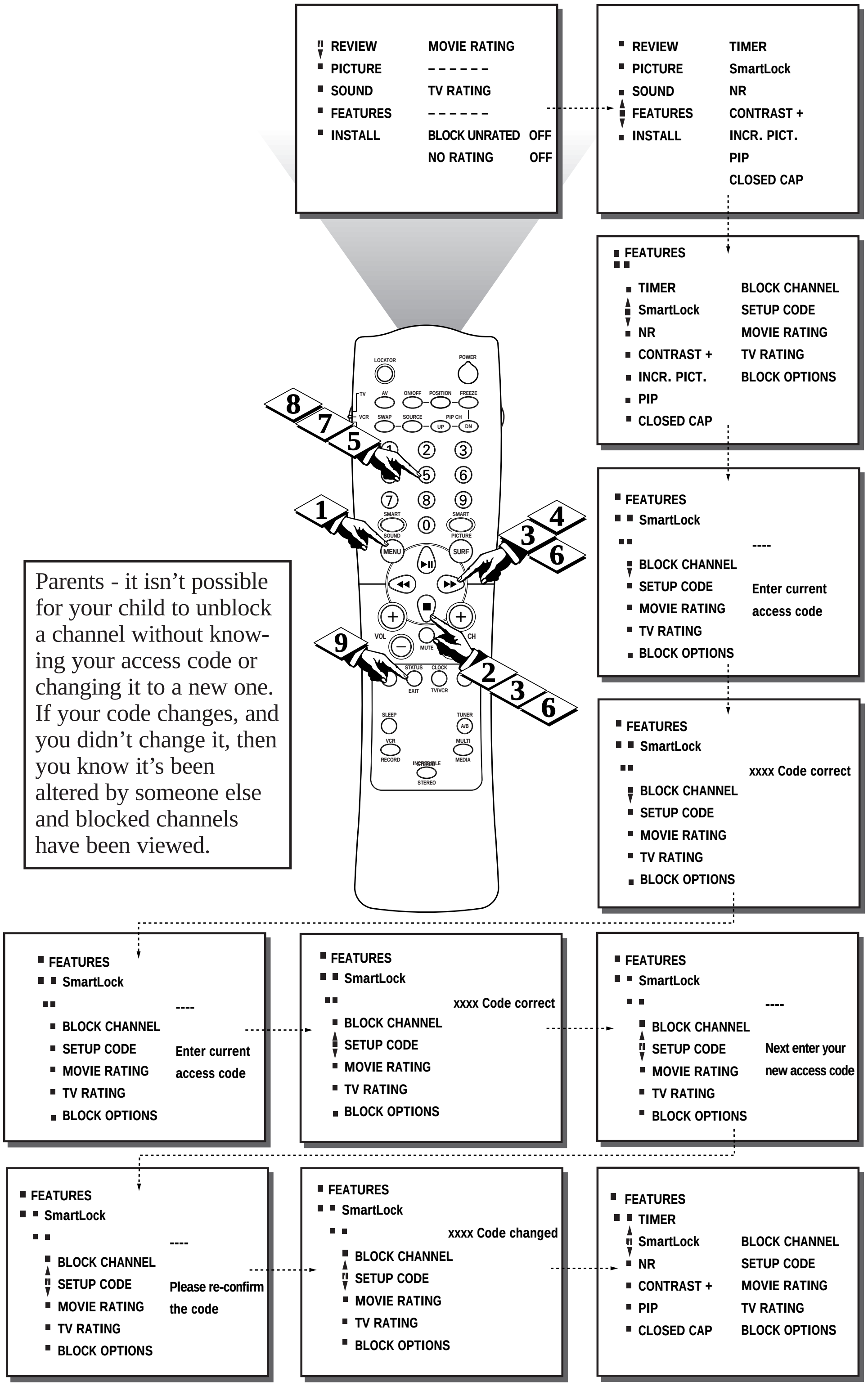
6 Press the CURSOR DOWN ■ button to highlight SETUP CODE, then press the CURSOR RIGHT ▶▶ button.

7 **You will be asked to enter the current access code again. Press 0711 on the remote control.** "XXXX Code correct" will appear.

8 **"Next enter your new access code"** shows on the screen. **Press the NUMBERED buttons** on the remote to enter a *NEW* four digit code. Reenter the code for confirmation.

"XXXX Code changed" shows on the screen to let you know the new code has been set.

9 **Press the STATUS/EXIT button** to remove the menu from the screen.



REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING

TV RATING

BLOCK UNRATED OFF
NO RATING OFF
REVIEW
PICTURE
SOUND
FEATURES
INSTALL
TIMER
SmartLock
NR
CONTRAST +
INCR. PICT.
PIP
CLOSED CAP
FEATURES
TIMER
SmartLock
NR
CONTRAST +
INCR. PICT.
PIP
CLOSED CAP
BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
FEATURES
SmartLock

BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
Enter current access code
xxxx Code correct
Next enter your new access code
Please re-confirm the code
xxxx Code changed
LOCATOR
POWER
TV
AV
ON/OFF
POSITION
FREEZE
VCR
SWAP
SOURCE
PIP CH
UP
DN
SMART
SOUND
PICTURE
MENU
SURF
VOL
CH
MUTE
STATUS
CLOCK
EXIT
TV/VCR
SLEEP
TUNER
A/B
VCR
RECORD
MULTI
MEDIA
INCREDIBLE STEREO
1
2
3
4
5
6
7
8
9

Parents - it isn't possible for your child to unblock a channel without knowing your access code or changing it to a new one. If your code changes, and you didn't change it, then you know it's been altered by someone else and blocked channels have been viewed.

USING SMARTLOCK - BLOCKING CHANNELS

After your personal access code has been set (see previous page), you are now ready to select the channels or inputs you want to block out or censor.

BEGIN

1 **Press the MENU button** on the remote to show the on-screen menu.

2 **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

3 **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left, then **CURSOR DOWN ■** to highlight the **SMARTLOCK** control.

4 **Press the CURSOR RIGHT ▶▶ button again** to shift the display left. **"---- Enter current access code"** will appear within the menu.

5 **Enter the correct access code number. "XXXX"** shows on the screen as you **press the NUMBERED buttons. "XXXX Code correct"** will appear, then the **BLOCK CHANNEL** control will be highlighted.

6 **Press the CURSOR RIGHT ▶▶ button.** You will be asked to enter your access code again. **Enter your access code.**

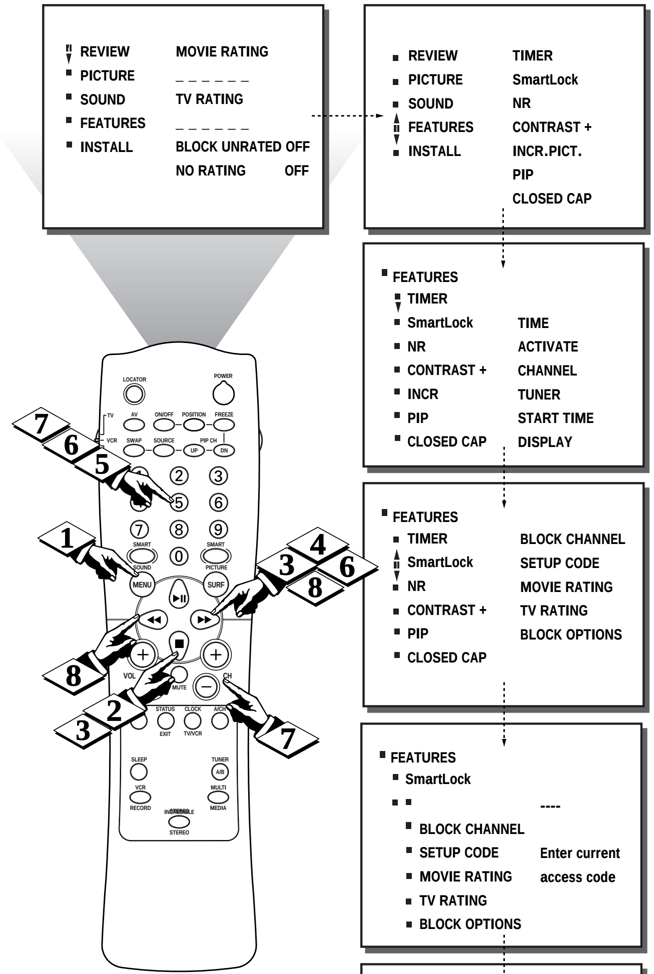
7 **Press the CHANNEL (+) or (–) buttons** (or NUMBERED buttons) to select the channel you want to block.

8 **Press the CURSOR RIGHT ▶▶ button** to block viewing of the channel, or the press the **CURSOR LEFT ◀◀** button to allow viewing of the channel.

Repeat steps 7 and 8 for any other channels you wish to block from viewing or press the STATUS/EXIT button to remove the menu from the screen.

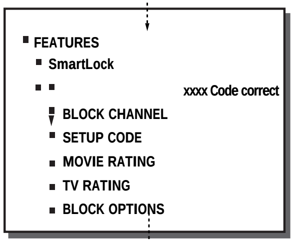
STOP

Note: Blocked channels will be skipped when you press the Channel +/- buttons. To view a blocked channel, use the Numbered buttons to access the channel. See page 22 for details.



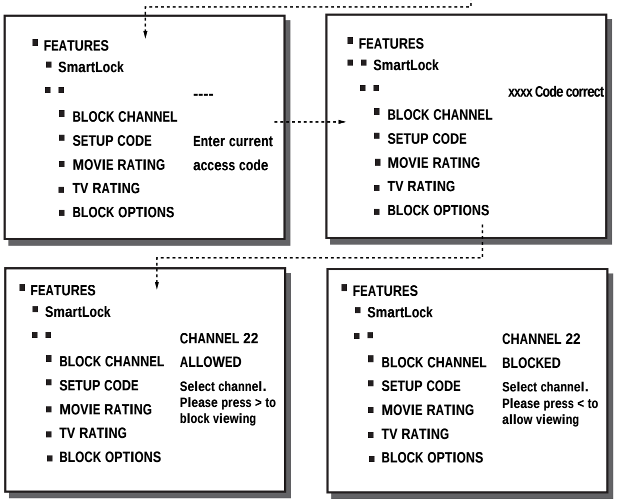
REVIEW MOVIE RATING
PICTURE _ _ _ _ _ _
SOUND TV RATING
FEATURES _ _ _ _ _ _
INSTALL BLOCK UNRATED OFF
NO RATING OFF
REVIEW TIMER
PICTURE SmartLock
SOUND NR
FEATURES CONTRAST +
INSTALL INCR.PICT.
PIP
CLOSED CAP
FEATURES
TIMER
SmartLock TIME
NR ACTIVATE
CONTRAST + CHANNEL
INCR TUNER
PIP START TIME
CLOSED CAP DISPLAY
FEATURES
TIMER BLOCK CHANNEL
SmartLock SETUP CODE
NR MOVIE RATING
CONTRAST + TV RATING
PIP BLOCK OPTIONS
CLOSED CAP
FEATURES
SmartLock

BLOCK CHANNEL
SETUP CODE Enter current
MOVIE RATING access code
TV RATING
BLOCK OPTIONS
1
2
3
4
5
6
7
8



FEATURES
SmartLock
xxxx Code correct
BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS

Note: You can also block out the use of the A/V external inputs on the rear of the TV. This stops the viewing of VCR, DVD, etc., programs which can be shown through the A/V Input jacks. Select AV 1 or AV 2 and select block.



FEATURES
SmartLock

BLOCK CHANNEL
SETUP CODE Enter current
MOVIE RATING access code
TV RATING
BLOCK OPTIONS
FEATURES
SmartLock
xxxx Code correct
BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
FEATURES
SmartLock
CHANNEL 22
BLOCK CHANNEL ALLOWED
SETUP CODE Select channel. Please press > to block viewing
MOVIE RATING
TV RATING
BLOCK OPTIONS
FEATURES
SmartLock
CHANNEL 22
BLOCK CHANNEL BLOCKED
SETUP CODE Select channel. Please press < to allow viewing
MOVIE RATING
TV RATING
BLOCK OPTIONS

USING SMARTLOCK - MOVIE RATING

After your personal access code has been set (see page 13), you may select specific movie ratings that you want to censor.

BEGIN

1 **Press the MENU button** on the remote to show the on-screen menu.

2 **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

3 **Press the CURSOR RIGHT ▶▶ button** to shift the menu to the left, then press the **CURSOR DOWN ■** button to highlight the **SMARTLOCK** control.

4 **Press the CURSOR RIGHT ▶▶ button again** to shift the display left. **“---- Enter current access code”** will appear within the menu.

5 **Enter the correct access code number. “XXXX”** shows on the screen as you **press the NUMBERED buttons. “XXXX Code correct”** will appear, then the **BLOCK CHANNEL** control will be highlighted.

6 **Press the CURSOR DOWN ■** button to select MOVIE RATING.

7 **Press the CURSOR RIGHT ▶▶ button to access the movie ratings.**

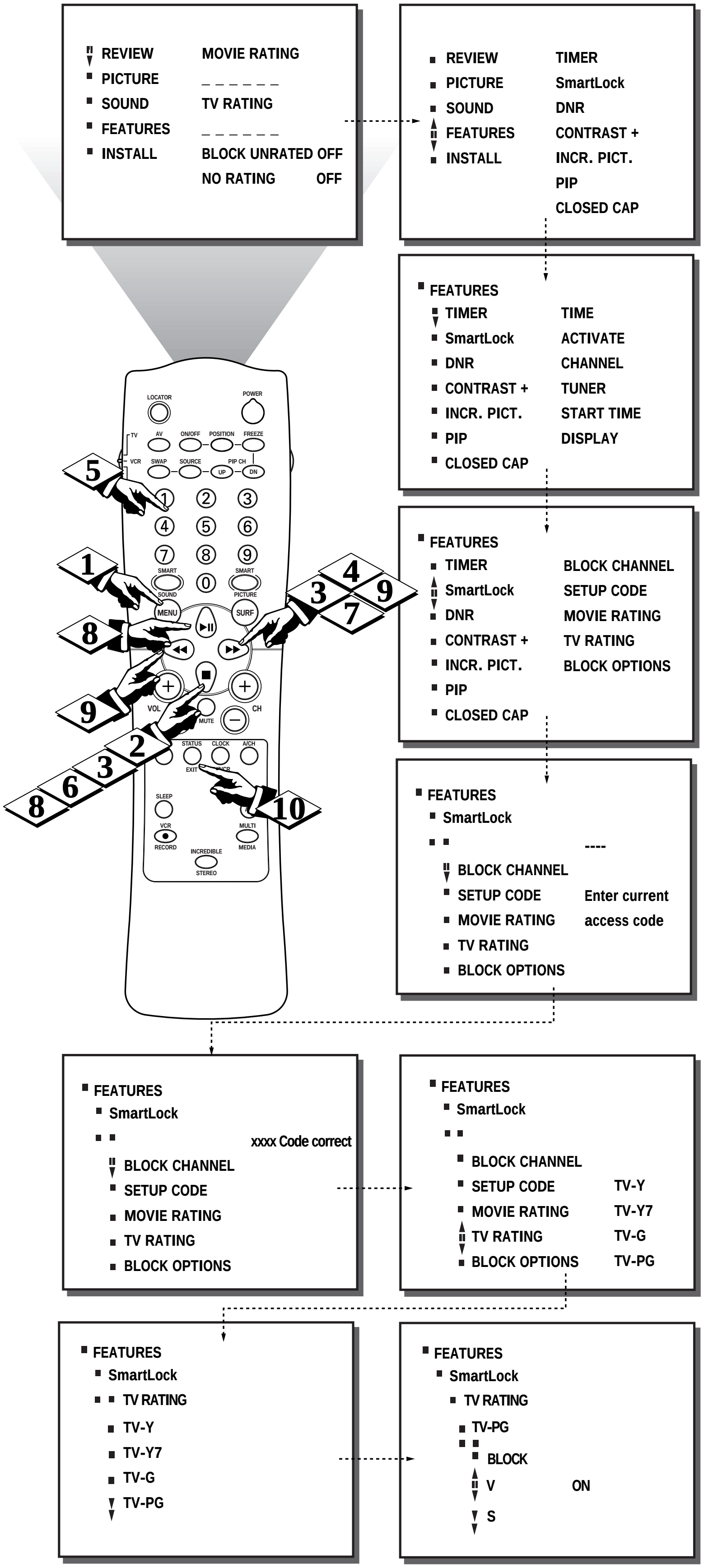
8 **Press the CURSOR UP ▶ button or the CURSOR DOWN ■ button to select a rating.**

9 **Press the CURSOR RIGHT ▶▶ button** or the **CURSOR LEFT ◀◀** button to turn the block on the rating ON or OFF.

Repeat steps 8 and 9 to turn ON or OFF the block for other ratings.

10 **Press the STATUS/EXIT button** to remove the menu.

STOP



REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
TV RATING
BLOCK UNRATED OFF
NO RATING OFF
REVIEW TIMER
PICTURE SmartLock
SOUND DNR
FEATURES CONTRAST +
INSTALL INCR. PICT.
PIP
CLOSED CAP
FEATURES
TIMER TIME
SmartLock ACTIVATE
DNR CHANNEL
CONTRAST + TUNER
INCR. PICT. START TIME
PIP DISPLAY
CLOSED CAP
FEATURES
TIMER BLOCK CHANNEL
SmartLock SETUP CODE
DNR MOVIE RATING
CONTRAST + TV RATING
INCR. PICT. BLOCK OPTIONS
PIP
CLOSED CAP
FEATURES
SmartLock

BLOCK CHANNEL
SETUP CODE Enter current
MOVIE RATING access code
TV RATING
BLOCK OPTIONS
FEATURES
SmartLock
xxxx Code correct
BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
FEATURES
SmartLock
BLOCK CHANNEL
SETUP CODE TV-Y
MOVIE RATING TV-Y7
TV RATING TV-G
BLOCK OPTIONS TV-PG
FEATURES
SmartLock
TV RATING
TV-Y
TV-Y7
TV-G
TV-PG
FEATURES
SmartLock
TV RATING
TV-PG
BLOCK
V ON
S
LOCATOR
POWER
TV AV ON/OFF POSITION FREEZE
VCR SWAP SOURCE PIP CH UP DN
1 2 3 4 5 6 7 8 9 0
SMART SOUND
SMART PICTURE
MENU
SURF
VOL
CH
MUTE
STATUS CLOCK A/CH
EXIT
SLEEP
VCR RECORD
INCREDIBLE STEREO
MULTI MEDIA
5
1
8
9
2
3
6
8
4
3
9
7
10

USING SMARTLOCK - TV RATING

You also may select specific television ratings that you want to censor.

BEGIN

1 **Press the MENU button** on the remote to show the on-screen menu.

2 **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

3 **Press the CURSOR RIGHT ▶▶ button** to shift the menu to the left, then press the **CURSOR DOWN ■** button to highlight the **SMARTLOCK** control.

4 **Press the CURSOR RIGHT ▶▶ button again** to shift the display left. **"---- Enter current access code"** will appear within the menu.

5 **Enter the correct access code number. "XXXX"** shows on the screen as you **press the NUMBERED buttons. "XXXX Code correct"** will appear, then the **BLOCK CHANNEL** control will be highlighted.

6 **Press the CURSOR DOWN ■** button to select TV RATING.

7 **Press the CURSOR RIGHT ▶▶ button to access the television ratings.**

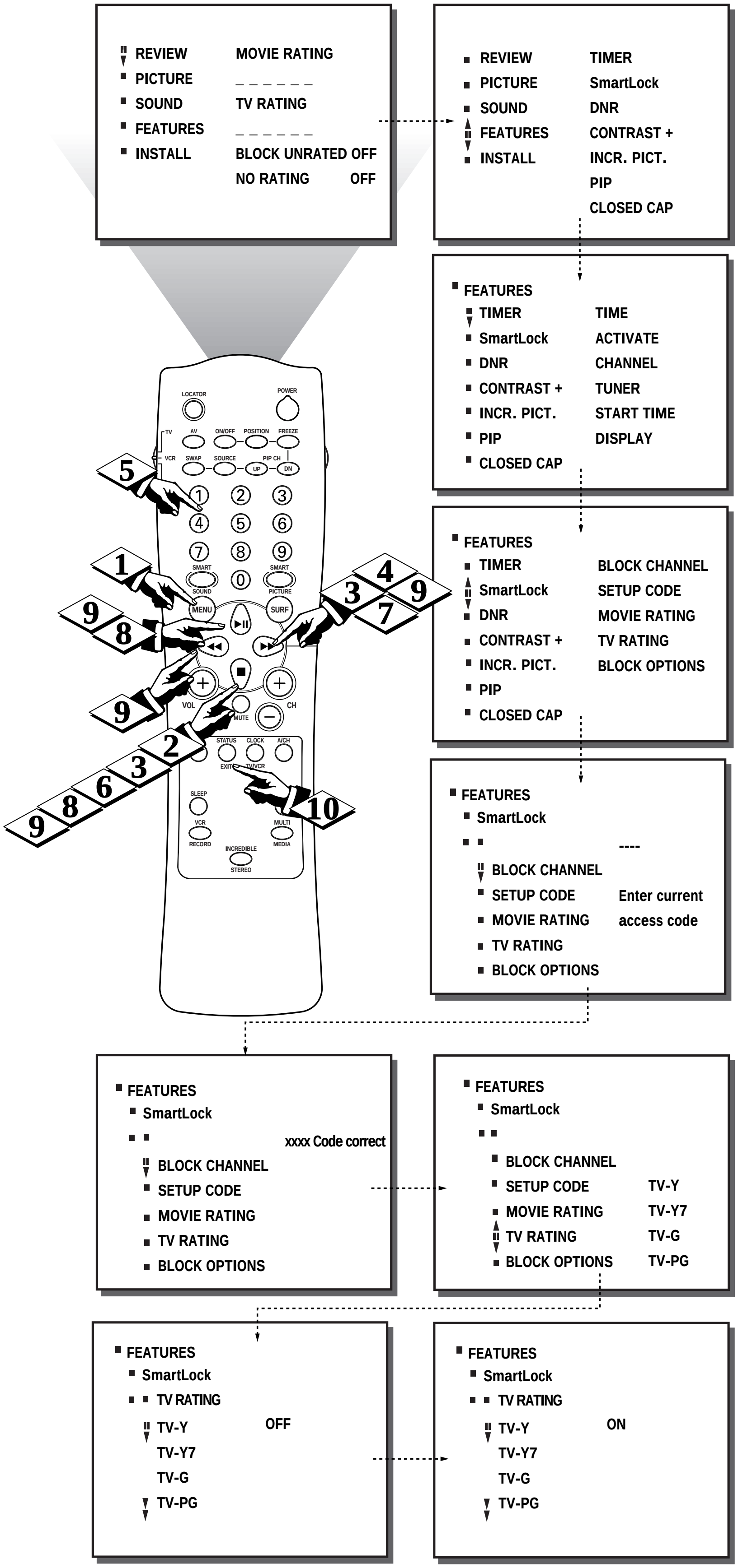
8 **Press the CURSOR UP ▶ button or the CURSOR DOWN ■ button to select a rating.**

9 **Press the CURSOR RIGHT ▶▶ button** or the **CURSOR LEFT ◀◀** button to turn the block on the rating ON or OFF.

More specific sub-ratings (for violence, sexual content, dialogue, or fantasy violence) are available for TV-Y7, TV-PG, TV-14, and TV-MA. **To access these sub-ratings, press the CURSOR RIGHT ▶▶ button. Press the CURSOR UP ▶ or CURSOR DOWN ■ buttons to select the sub-rating that you want to block or unblock. Then, press the CURSOR RIGHT ▶▶ button or the CURSOR LEFT ◀◀ button to turn the block on the sub-rating ON or OFF.**

10 **Press the STATUS/EXIT button** to remove the menu.

STOP



REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
TV RATING
BLOCK UNRATED OFF
NO RATING OFF
REVIEW TIMER
PICTURE SmartLock
SOUND DNR
FEATURES CONTRAST +
INSTALL INCR. PICT.
PIP
CLOSED CAP
FEATURES
TIMER TIME
SmartLock ACTIVATE
DNR CHANNEL
CONTRAST + TUNER
INCR. PICT. START TIME
PIP DISPLAY
CLOSED CAP
FEATURES
TIMER BLOCK CHANNEL
SmartLock SETUP CODE
DNR MOVIE RATING
CONTRAST + TV RATING
INCR. PICT. BLOCK OPTIONS
PIP
CLOSED CAP
FEATURES
SmartLock

BLOCK CHANNEL
SETUP CODE Enter current
MOVIE RATING access code
TV RATING
BLOCK OPTIONS
FEATURES
SmartLock
xxxx Code correct
BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
FEATURES
SmartLock
BLOCK CHANNEL TV-Y
SETUP CODE TV-Y7
MOVIE RATING TV-G
TV RATING TV-PG
BLOCK OPTIONS
FEATURES
SmartLock
TV RATING
TV-Y OFF
TV-Y7
TV-G
TV-PG
FEATURES
SmartLock
TV RATING
TV-Y ON
TV-Y7
TV-G
TV-PG
LOCATOR
POWER
TV AV ON/OFF POSITION FREEZE
VCR SWAP SOURCE PIP CH UP DN
1 2 3 4 5 6 7 8 9 0
SMART SOUND
SMART PICTURE
MENU
SURF
VOL
CH
MUTE
STATUS EXIT
CLOCK TV/VCR
A/CH
SLEEP
VCR RECORD
MULTI MEDIA
INCREDIBLE STEREO
5
1
9
8
9
2
3
6
8
9
3
4
9
7
10

USING SMARTLOCK - BLOCKING

After you block specific channels or ratings, you must set BLOCKING to ON or OFF in order to activate the blocking. To set BLOCKING to ON or OFF, follow these steps.

BEGIN

1 **Press the MENU button** on the remote to show the on-screen menu.

2 **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

3 **Press the CURSOR RIGHT ▶▶ button** to shift the menu to the left, then press the **CURSOR DOWN ■** button to highlight the **SMARTLOCK** control.

4 **Press the CURSOR RIGHT ▶▶ button again** to shift the display left. **"---- Enter current access code"** will appear within the menu.

5 **Enter the correct access code number. "XXXX"** shows on the screen as you **press the NUMBERED buttons. "XXXX Code correct"** will appear, then **BLOCK CHANNEL** will be highlighted.

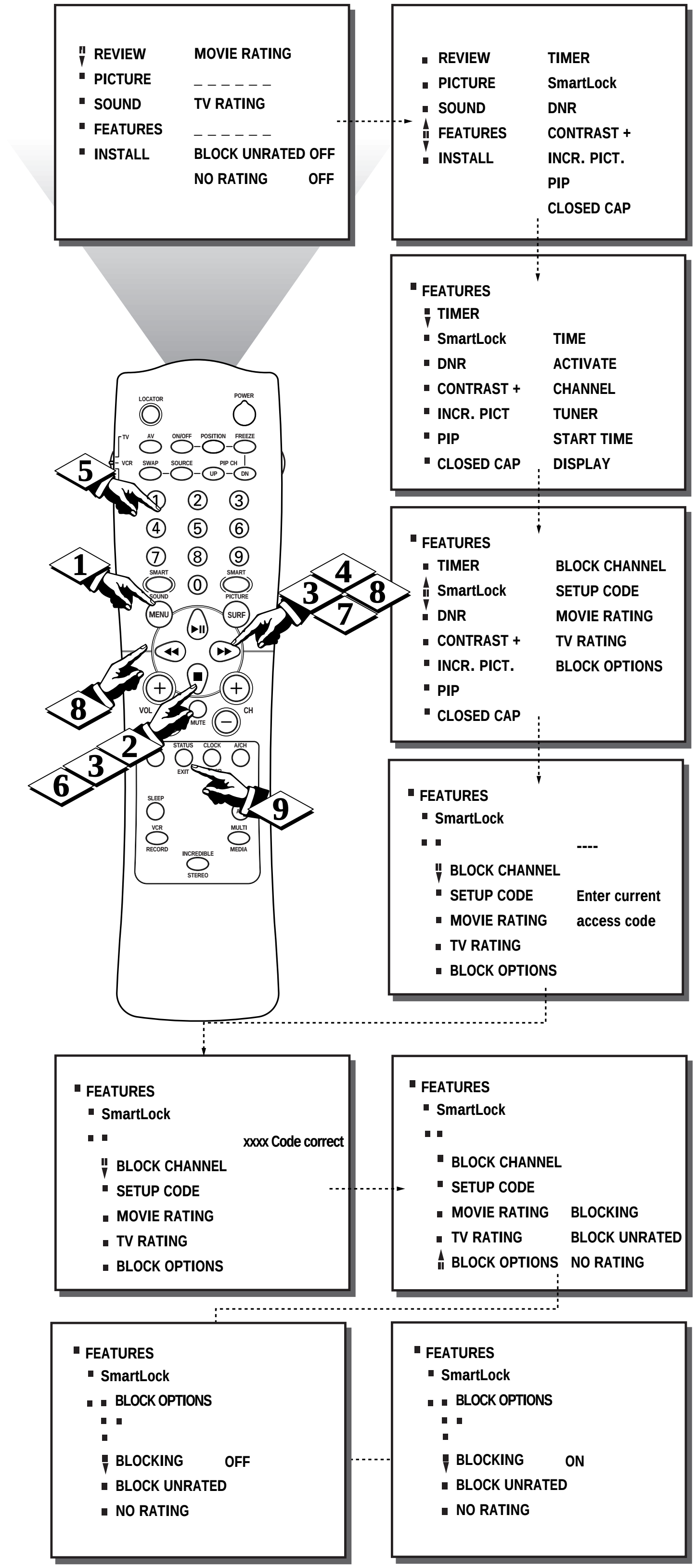
6 **Press the CURSOR DOWN ■** button to select **BLOCK OPTIONS.**

7 **Press the CURSOR RIGHT ▶▶ button to shift the menu to the left and see the options. BLOCKING will be highlighted.**

8 **Press the CURSOR RIGHT ▶▶ button** or the **CURSOR LEFT ◀◀** button to **set BLOCKING to ON or OFF.**

9 **Press the STATUS/EXIT button** to remove the menu.

STOP


REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
TV RATING
BLOCK UNRATED OFF
NO RATING OFF
REVIEW
PICTURE
SOUND
FEATURES
INSTALL
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
CLOSED CAP
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT
PIP
CLOSED CAP
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
CLOSED CAP
BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
FEATURES
SmartLock

BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
Enter current access code
FEATURES
SmartLock
xxxx Code correct
BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
FEATURES
SmartLock
BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
BLOCKING
BLOCK UNRATED
NO RATING
FEATURES
SmartLock
BLOCK OPTIONS
BLOCKING OFF
BLOCK UNRATED
NO RATING
FEATURES
SmartLock
BLOCK OPTIONS
BLOCKING ON
BLOCK UNRATED
NO RATING
LOCATOR
POWER
TV
AV
ON/OFF
POSITION
FREEZE
VCR
SWAP
SOURCE
PIP CH
UP
DN
SMART
SOUND
PICTURE
MENU
SURF
VOL
CH
MUTE
STATUS
EXIT
CLOCK
A/CH
SLEEP
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO
1
2
3
4
5
6
7
8
9

USING SMARTLOCK - BLOCK UNRATED

In addition to blocking specific ratings or channels, you may choose to block all programming that is unrated. (See explanation on page 12.)

BEGIN

1 **Press the MENU button** on the remote to show the on-screen menu.

2 **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

3 **Press the CURSOR RIGHT ▶▶ button** to shift the menu to the left, then press the **CURSOR DOWN ■** button to highlight the **SMARTLOCK** control.

4 **Press the CURSOR RIGHT ▶▶ button again** to shift the display left. **"---- Enter current access code"** will appear within the menu.

5 **Enter the correct access code number. "XXXX"** shows on the screen as you **press the NUMBERED buttons. "XXXX Code correct"** will appear, then **BLOCK CHANNEL** will be highlighted.

6 **Press the CURSOR DOWN ■** button to select **BLOCK OPTIONS.**

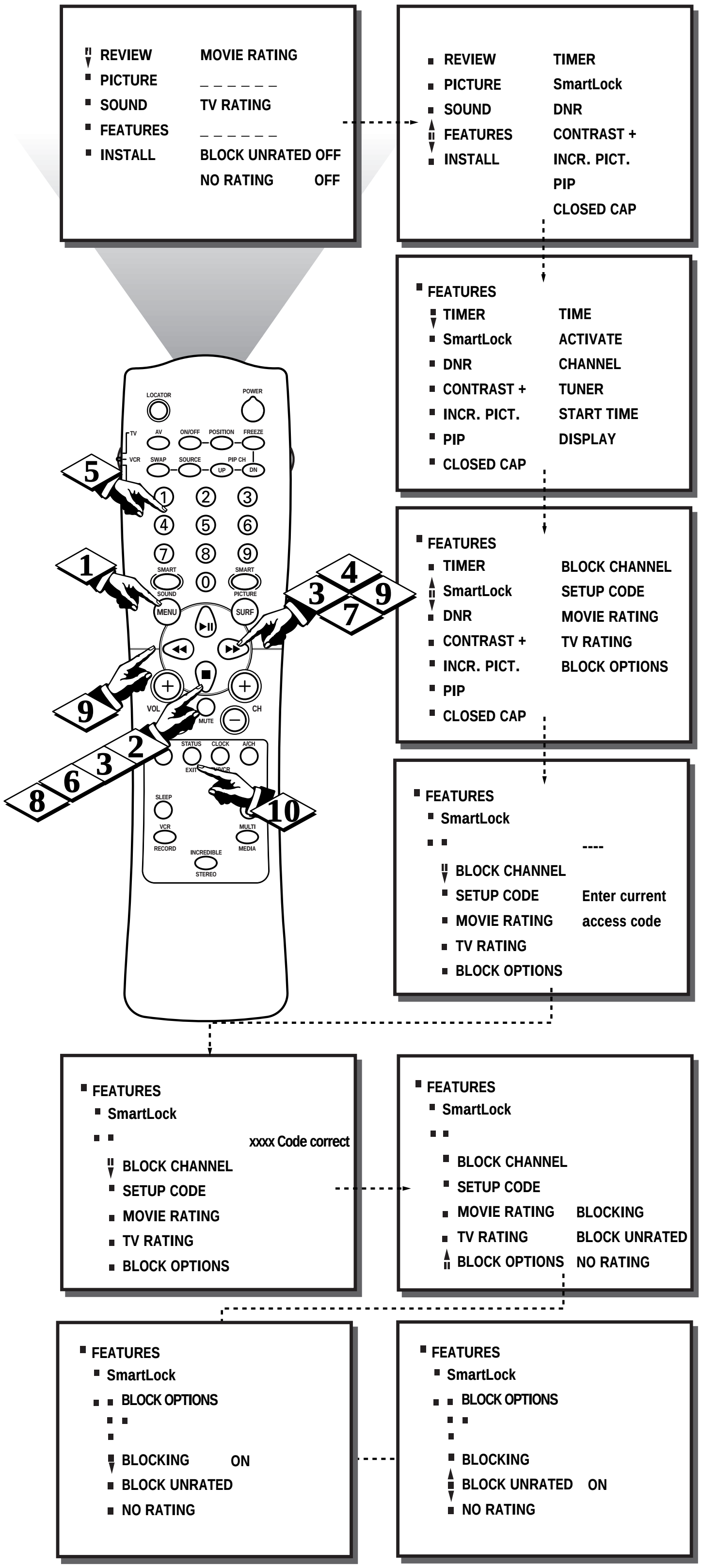
7 **Press the CURSOR RIGHT ▶▶ button to shift the menu to the left and see the options. BLOCKING will be highlighted.**

8 **Press the CURSOR DOWN ■ button to select BLOCK UNRATED.**

9 **Press the CURSOR RIGHT ▶▶ button or the CURSOR LEFT ◀◀ button to set BLOCK UNRATED to ON or OFF.**

10 **Press the STATUS/EXIT button** to remove the menu.

STOP


REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
_ _ _ _ _ _
TV RATING
_ _ _ _ _ _
BLOCK UNRATED OFF
NO RATING OFF
REVIEW
PICTURE
SOUND
FEATURES
INSTALL
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
CLOSED CAP
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
CLOSED CAP
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
CLOSED CAP
BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
FEATURES
SmartLock

BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
Enter current access code
FEATURES
SmartLock
xxxx Code correct
BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
FEATURES
SmartLock
BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
BLOCKING
BLOCK UNRATED
NO RATING
FEATURES
SmartLock
BLOCK OPTIONS
BLOCKING ON
BLOCK UNRATED
NO RATING
FEATURES
SmartLock
BLOCK OPTIONS
BLOCKING
BLOCK UNRATED ON
NO RATING
LOCATOR
POWER
TV
VCR
AV
ON/OFF
POSITION
FREEZE
SWAP
SOURCE
PIP CH
UP
DN
SMART
SOUND
PICTURE
MENU
SURF
VOL
CH
MUTE
STATUS
EXIT
CLOCK
A/CH
SLEEP
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO
1
2
3
4
5
6
7
8
9
10

USING SMARTLOCK - NO RATING

Some programming is not encoded with content advisory data by the MPAA or the television broadcasters. (See explanation on page 12.) To block such programming, follow these steps.

BEGIN

1 **Press the MENU button** on the remote to show the on-screen menu.

2 **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

3 **Press the CURSOR RIGHT ▶▶ button** to shift the menu to the left, then press the **CURSOR DOWN ■** button to highlight the **SMARTLOCK** control.

4 **Press the CURSOR RIGHT ▶▶ button again** to shift the display left. **"---- Enter current access code"** will appear within the menu.

5 **Enter the correct access code number. "XXXX"** shows on the screen as you **press the NUMBERED buttons. "XXXX Code correct"** will appear, then **BLOCK CHANNEL** will be highlighted.

6 **Press the CURSOR DOWN ■** button to select **BLOCK OPTIONS.**

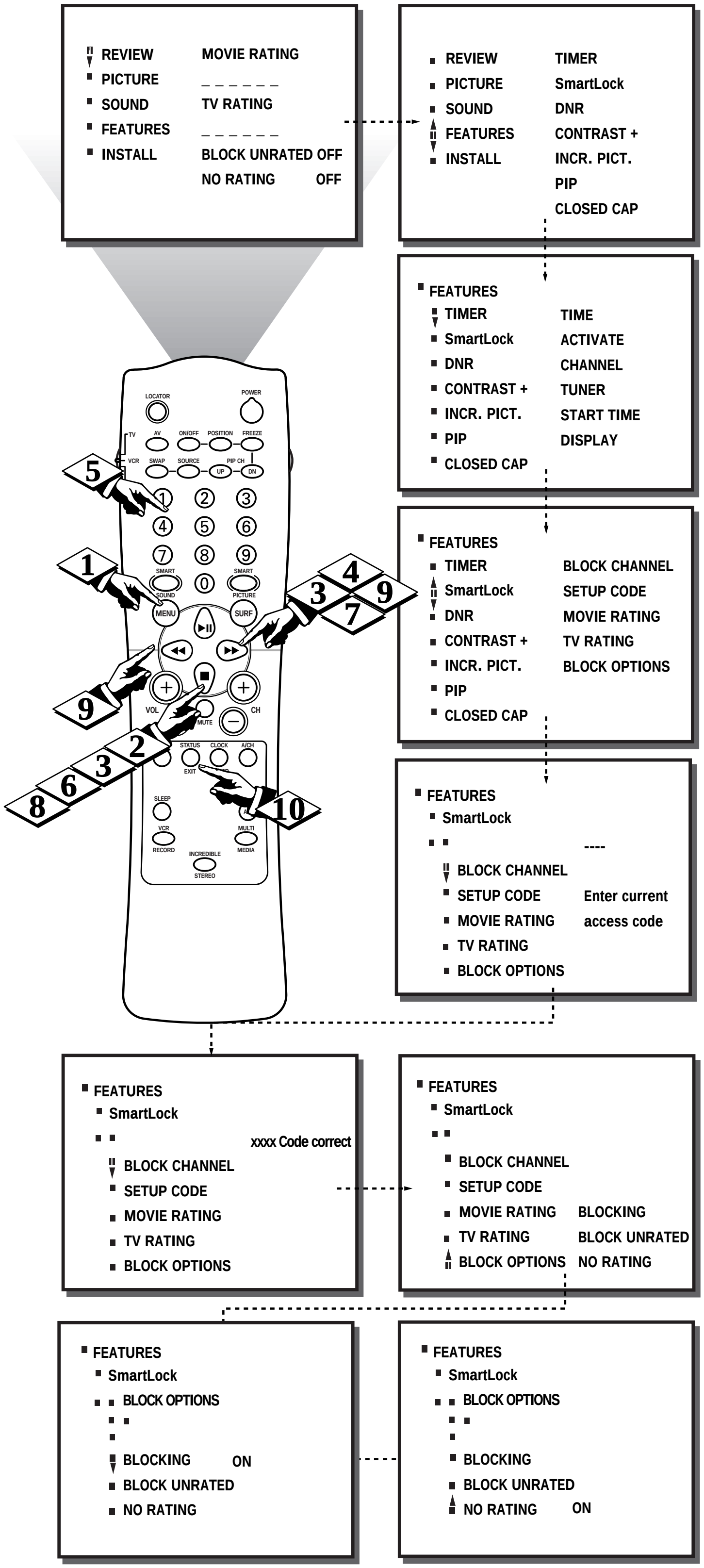
7 **Press the CURSOR RIGHT ▶▶ button to shift the menu to the left and see the options. BLOCKING will be highlighted.**

8 **Press the CURSOR DOWN ■ button to select NO RATING.**

9 **Press the CURSOR RIGHT ▶▶ button or the CURSOR LEFT ◀◀ button to set NO RATING to ON or OFF.**

10 **Press the STATUS/EXIT button** to remove the menu.

STOP


REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
_ _ _ _ _ _
TV RATING
_ _ _ _ _ _
BLOCK UNRATED OFF
NO RATING OFF
REVIEW
PICTURE
SOUND
FEATURES
INSTALL
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
CLOSED CAP
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
CLOSED CAP
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
CLOSED CAP
BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
FEATURES
SmartLock

BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
Enter current access code
FEATURES
SmartLock
xxxx Code correct
BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
FEATURES
SmartLock
BLOCK CHANNEL
SETUP CODE
MOVIE RATING
TV RATING
BLOCK OPTIONS
BLOCKING
BLOCK UNRATED
NO RATING
FEATURES
SmartLock
BLOCK OPTIONS
BLOCKING ON
BLOCK UNRATED
NO RATING
FEATURES
SmartLock
BLOCK OPTIONS
BLOCKING
BLOCK UNRATED
NO RATING ON
LOCATOR
POWER
TV
AV
ON/OFF
POSITION
FREEZE
VCR
SWAP
SOURCE
PIP CH
UP
DN
1 2 3 4 5 6 7 8 9 0
SMART
SMART
SOUND
PICTURE
MENU
SURF
VOL
CH
MUTE
STATUS
EXIT
CLOCK
A/CH
SLEEP
VCR
RECORD
INCREDIBLE
STEREO
MULTI
MEDIA
1
2
3
4
5
6
7
8
9
10

REVIEWING THE SMARTLOCK SETTINGS

A review screen is available to remind you which ratings you have blocked and which Block Options you have selected.

BEGIN

1 **Press the MENU button** on the remote to show the on-screen menu. REVIEW should be highlighted.

The ratings that you have blocked will appear on the right side of the menu.
If you have blocked specific sub-ratings, such as V for Violence in the TV-PG category, these blocked sub-ratings will not appear in the review. However, the sub-ratings are still blocked according to your selections.
If a sub-rating (such as V) is blocked but the main category (such as TV-PG) is not, the category will not appear as a blocked rating in the review. However, the sub-rating is still blocked.

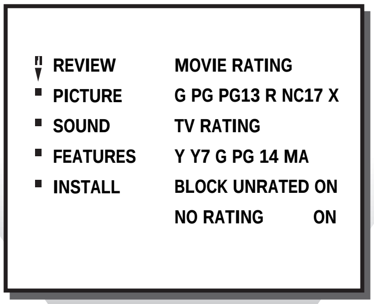
2 **Press the STATUS/EXIT button** to remove the menu.

STOP

SMART HELP

Remember, the REVIEW will only appear if BLOCKING is set to ON. For details, see page 18.

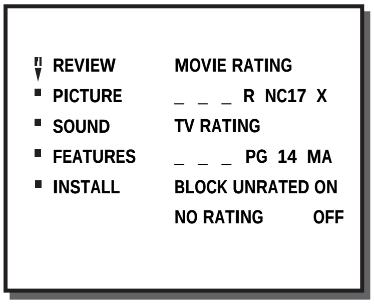
Example: All ratings are blocked and all BLOCK OPTIONS are ON.



```
REVIEW      MOVIE RATING
PICTURE     G PG PG13 R NC17 X
SOUND       TV RATING
FEATURES    Y Y7 G PG 14 MA
INSTALL     BLOCK UNRATED ON
            NO RATING     ON
```

OR

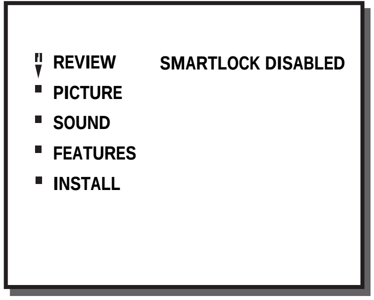
Example: Some ratings are blocked and some BLOCK OPTIONS are ON.



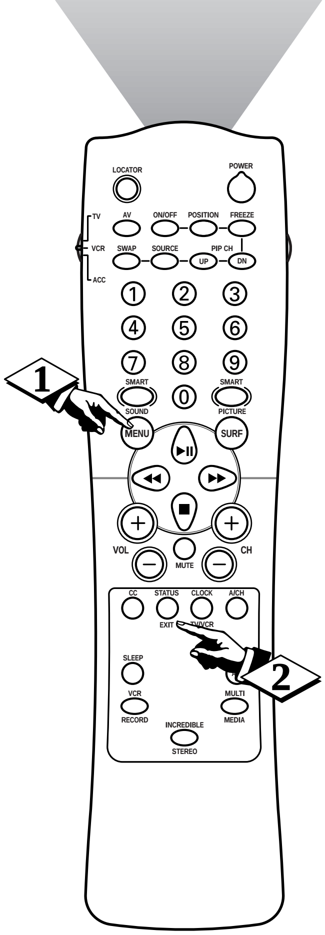
```
REVIEW      MOVIE RATING
PICTURE     _ _ _  R  NC17  X
SOUND       TV RATING
FEATURES    _ _ _  PG  14  MA
INSTALL     BLOCK UNRATED ON
            NO RATING      OFF
```

OR

Example: BLOCKING is set to OFF.



```
REVIEW      SMARTLOCK DISABLED
PICTURE
SOUND
FEATURES
INSTALL
```


LOCATOR
POWER
TV
VCR
ACC
AV
ON/OFF
POSITION
FREEZE
SWAP
SOURCE
PIP CH
UP
DN
1 2 3 4 5 6 7 8 9 0
SMART SOUND
SMART PICTURE
MENU
SURF
VOL
CH
MUTE
CC
STATUS
CLOCK
A/CH
EXIT
TV/VCR
SLEEP
VCR RECORD
MULTI MEDIA
INCREDIBLE STEREO
1
2

VIEWING BLOCKED PROGRAMMING

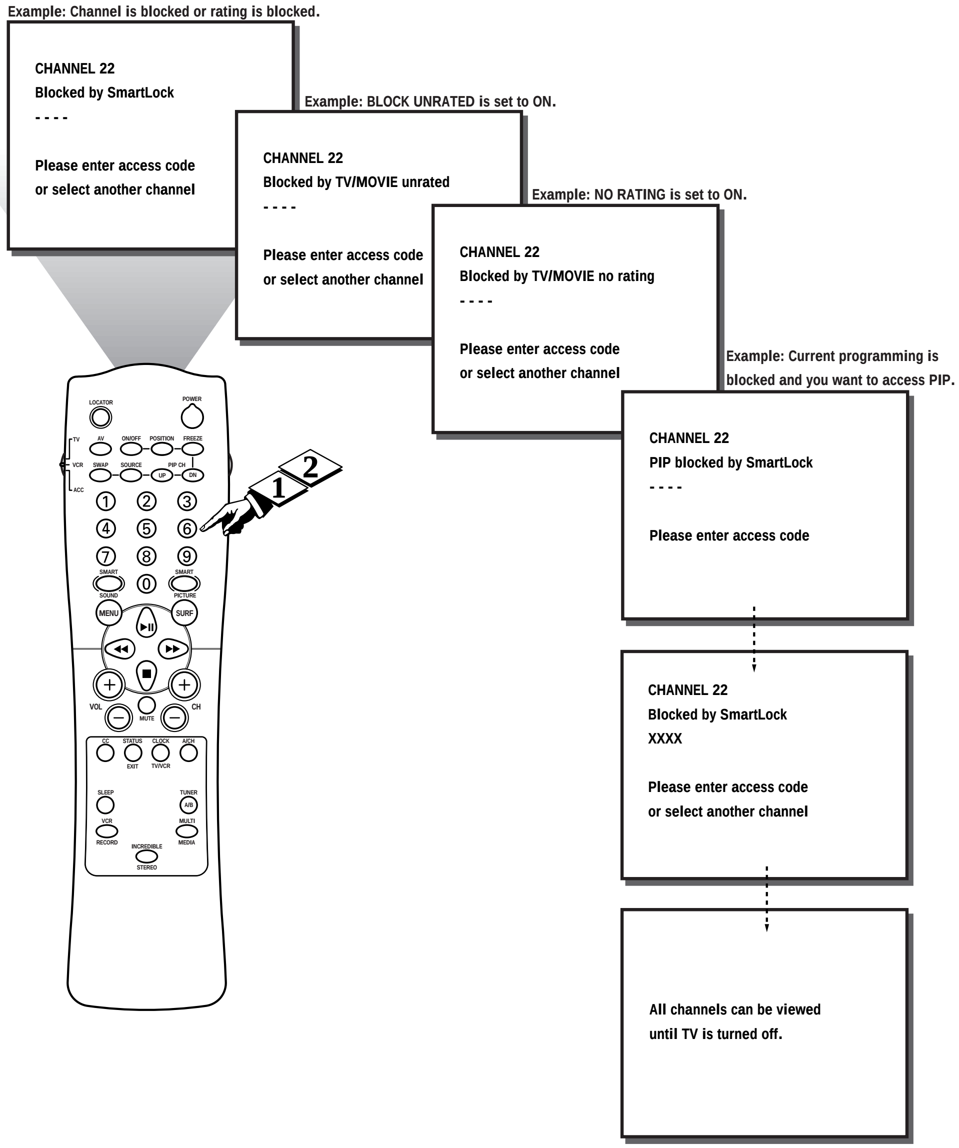
Various on-screen messages will appear when someone tries to view blocked programming. Shown here are examples of these messages. The message is determined by how the current programming is blocked. You may view the blocked programming and turn off the SmartLock feature by entering your access code.

BEGIN

1 **Access a channel directly by pressing the Numbered buttons on the remote control.**
If the programming is blocked, a message will appear on the screen, indicating whether the program is blocked because of its rating, the channel, or your selected blocking options.

2 **Press the Numbered buttons to enter your personal access code.**
If you do not know the code, you must press the Channel +/- buttons to select another channel. You can not use the Numbered buttons to select another channel at this time.

3 **Once you enter the correct personal access code, all blocked channels and programming will be viewable until you turn off the TV power.**
When you turn on the TV again, the SmartLock blockings will be restored.


LOCATOR
POWER
TV
AV
ON/OFF
POSITION
FREEZE
VCR
SWAP
SOURCE
PIP CH
UP
DN
ACC
1
2
3
4
5
6
7
8
9
SMART
0
SMART
SOUND
PICTURE
MENU
SURF
VOL
CH
MUTE
CC
STATUS
CLOCK
A/CH
EXIT
TV/VCR
SLEEP
TUNER
A/B
VCR
MULTI
RECORD
MEDIA
INCREDIBLE
STEREO
1
2

Example: Channel is blocked or rating is blocked.

CHANNEL 22
Blocked by SmartLock
- - - -
Please enter access code
or select another channel

Example: BLOCK UNRATED is set to ON.

CHANNEL 22
Blocked by TV/MOVIE unrated
- - - -
Please enter access code
or select another channel

Example: NO RATING is set to ON.

CHANNEL 22
Blocked by TV/MOVIE no rating
- - - -
Please enter access code
or select another channel

Example: Current programming is blocked and you want to access PIP.

CHANNEL 22
PIP blocked by SmartLock
- - - -
Please enter access code

CHANNEL 22
Blocked by SmartLock
XXXX
Please enter access code
or select another channel

All channels can be viewed
until TV is turned off.

SMART HELP

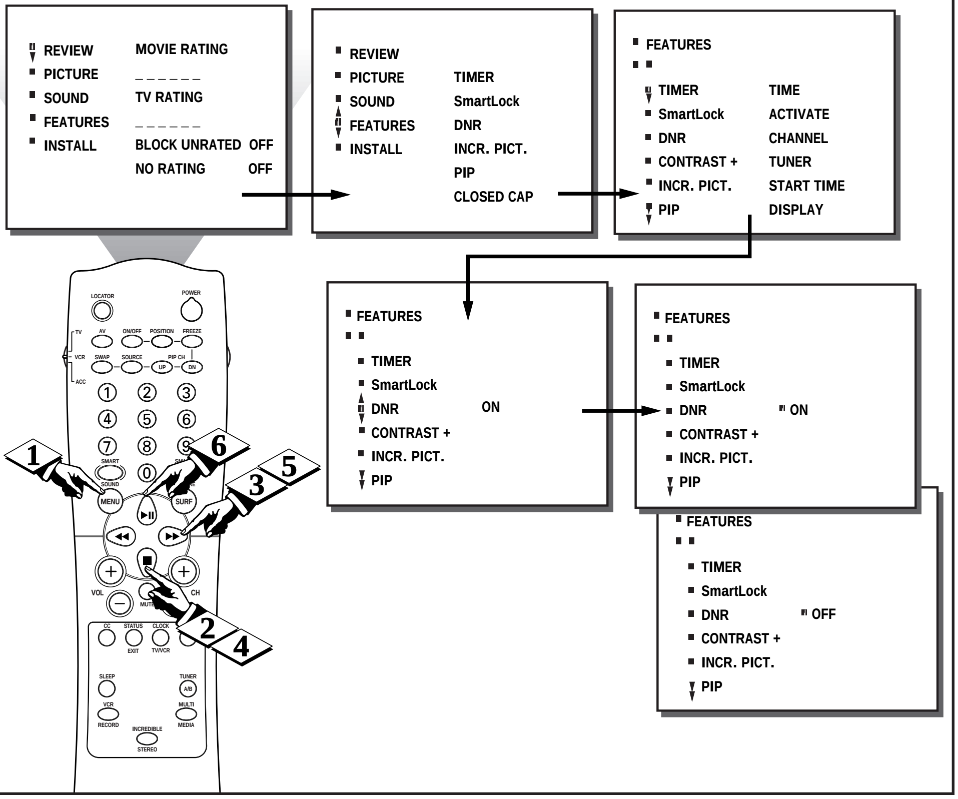
If SmartLock is activated, you will not be able to access programming in the PIP window until you enter your personal access code.

TURNING ON THE DYNAMIC NOISE REDUCTION (PICTURE) CONTROL

Due to reasons such as poor cable reception, the picture can sometime appear slightly "speckled" (signal noise in the picture). The DNR (Dynamic Noise Reduction) control can help eliminate this type of interference and improve the quality of the picture.

BEGIN

1. **Press the MENU button** on the remote to show the onscreen menu.
2. **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.
3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left, TIMER will be highlighted.
4. **Press the CURSOR DOWN ■** to highlight the **DNR** control.
5. **Press the CURSOR RIGHT ▶▶ button again** to highlight the DNR option area.
6. **Press the CURSOR UP ▶ or CURSOR DOWN ■ buttons** to turn the DNR feature **ON** or **OFF**.

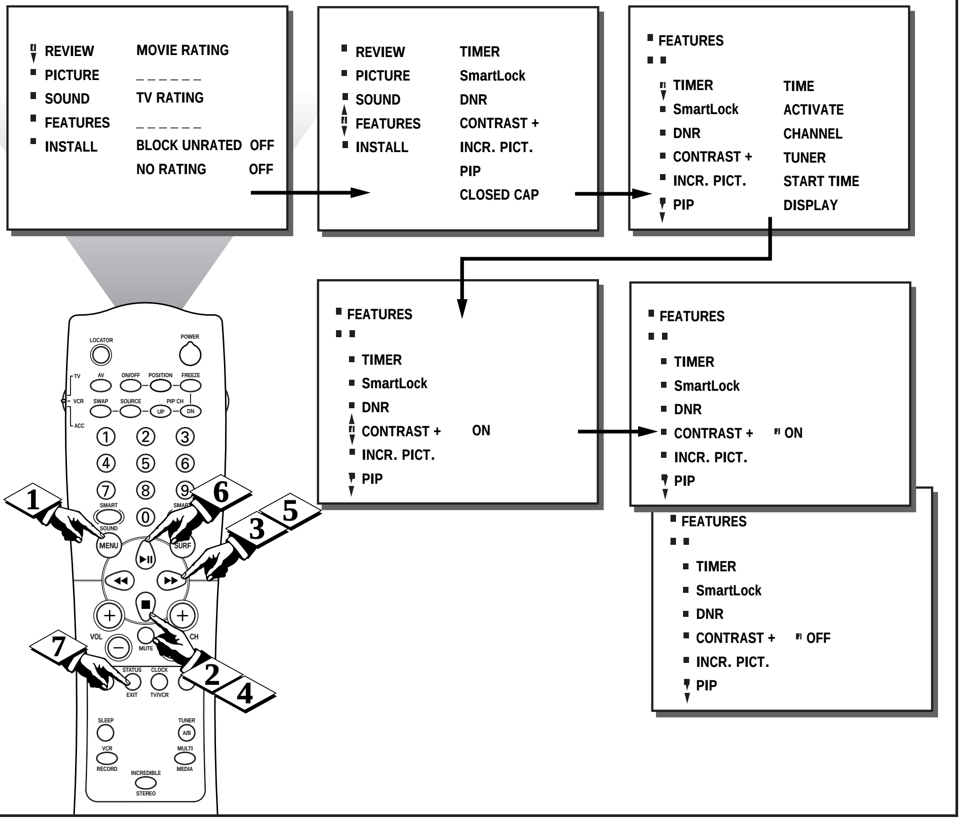

REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
TV RATING
BLOCK UNRATED OFF
NO RATING OFF
TIMER
SmartLock
DNR
INCR. PICT.
PIP
CLOSED CAP
CONTRAST +
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
ON
OFF
1
2
3
4
5
6

TURNING ON THE CONTRAST + CONTROL

The Contrast + feature helps to "sharpen" the picture quality. The black portions of the picture become richer in darkness and the whites become brighter.

BEGIN

1. **Press the MENU button** on the remote to show the onscreen menu.
2. **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.
3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left. **TIMER** will be highlighted.
4. **Press the CURSOR DOWN ■** button to highlight the **CONTRAST +** control.
5. **Press the CURSOR RIGHT ▶▶ button again** to highlight the CONTRAST + option area.
6. **Press the CURSOR UP ▶ or CURSOR DOWN ■ buttons** to turn the CONTRAST + feature ON or OFF.
7. **Press the STATUS/EXIT button** to remove the menu from the screen.


REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
TV RATING
BLOCK UNRATED OFF
NO RATING OFF
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
CLOSED CAP
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
ON
OFF
1
2
3
4
5
6
7

TURNING ON THE INCREDIBLE PICTURE CONTROL

The Incredible Picture feature helps to "sharpen" the picture quality. The black portions of the picture become richer in darkness and the whites become brighter.

BEGIN

1 **Press the MENU button** on the remote to show the onscreen menu.

2 **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

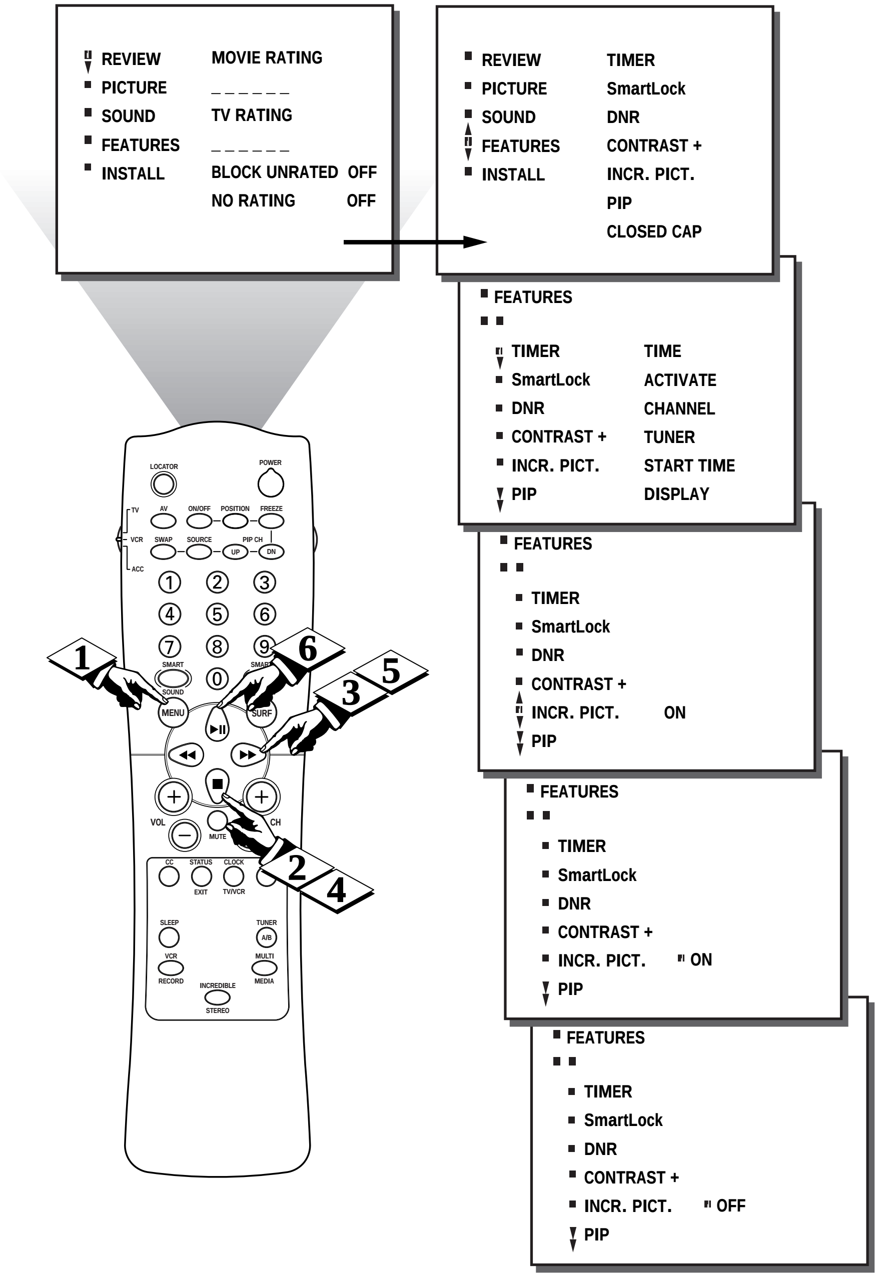
3 **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left, TIMER will be highlighted.

4 **Press the CURSOR DOWN ■** to highlight the **INCR. PICT.** control.

5 **Press the CURSOR RIGHT ▶▶ button again** to highlight the INCR. PICT. option area.

6 **Press the CURSOR UP ▶ or CURSOR DOWN ■ buttons** to turn the INCR. PICT. feature **ON** or **OFF**.

STOP


REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
______
TV RATING
______
BLOCK UNRATED OFF
NO RATING OFF
REVIEW
PICTURE
SOUND
FEATURES
INSTALL
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
CLOSED CAP
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT. ON
PIP
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT. ON
PIP
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT. OFF
PIP
LOCATOR
POWER
TV
AV
ON/OFF
POSITION
FREEZE
VCR
SWAP
SOURCE
PIP CH
UP
DN
ACC
1
2
3
4
5
6
7
8
9
SMART
SMART
0
SOUND
MENU
SURF
VOL
CH
MUTE
CC
STATUS
CLOCK
EXIT
TV/VCR
SLEEP
TUNER
A/B
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO
1
6
3
5
2
4

USING THE CLOSED CAPTION CONTROL

Closed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses onscreen "text boxes" to show dialogue and conversations while the TV program is in progress.

BEGIN

1 **Press the MENU button** on the remote to show the onscreen menu.

2 **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

3 **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left, TIMER will be highlighted.

4 **Press the CURSOR DOWN ■** to highlight the **CLOSED CAP** control.

5 **Press the CURSOR RIGHT ▶▶ button again** to highlight and choose either CAPTION MODE or TEXT MODE.

6 **Press the CURSOR RIGHT ▶▶ button** again to highlight the **CAPTION MODE or TEXT MODE** options area.

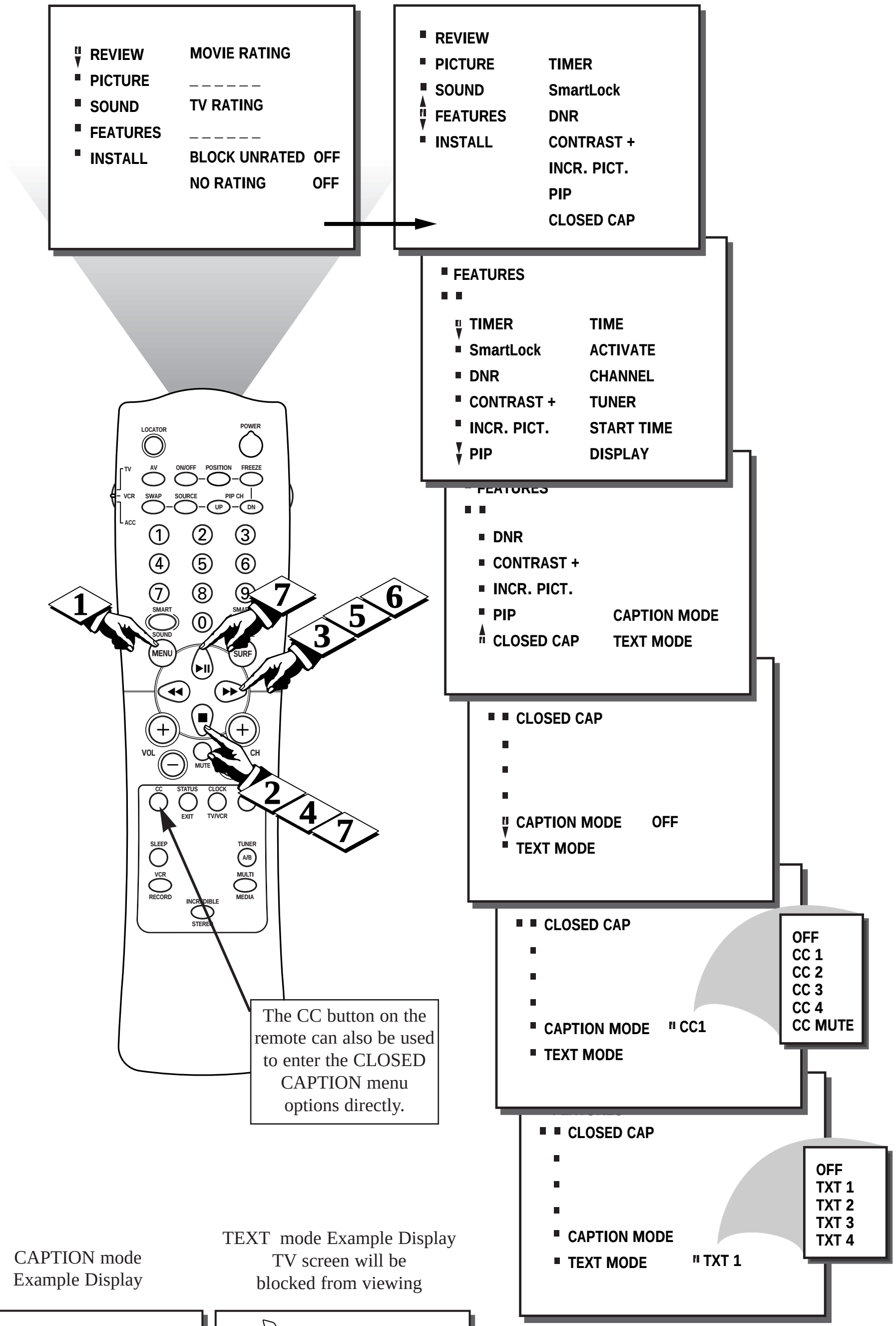
7 **Press the CURSOR UP ▶ or CURSOR DOWN ■ buttons** to select the CLOSED CAPTION option you want.

CAPTION MODE: CC1, CC2, CC3, CC4, CC MUTE, or OFF
- dialogue (and descriptions) for the action on the captioned TV program shows onscreen.

TEXT MODE: TXT1, TXT2,TXT3, TXT4, or OFF
- often used for channel guide, schedules, or bulletin board information for CC programs.

STOP

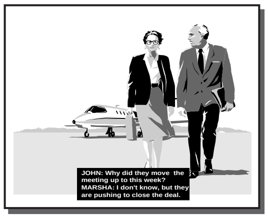
NOTE: Not all TV programs and product commercials are made for broadcast with Closed Caption (CC) information included. Neither are all Closed Caption modes (CAPTION 1-4, or TEXT 1-4) necessarily being used by a broadcast station during the transmission of a closed caption program. Refer to your area's TV program listings for the stations and times of Closed Caption shows.

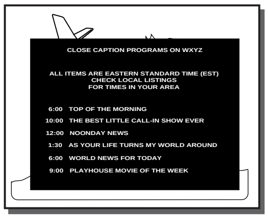

REVIEW MOVIE RATING
PICTURE _ _ _ _ _ _
SOUND TV RATING
FEATURES _ _ _ _ _ _
INSTALL BLOCK UNRATED OFF
NO RATING OFF
REVIEW
PICTURE TIMER
SOUND SmartLock
FEATURES DNR
INSTALL CONTRAST +
INCR. PICT.
PIP
CLOSED CAP
FEATURES
TIMER TIME
SmartLock ACTIVATE
DNR CHANNEL
CONTRAST + TUNER
INCR. PICT. START TIME
PIP DISPLAY
DNR
CONTRAST +
INCR. PICT.
PIP CAPTION MODE
CLOSED CAP TEXT MODE
CLOSED CAP
CAPTION MODE OFF
TEXT MODE
CLOSED CAP
CAPTION MODE CC1
TEXT MODE
OFF
CC 1
CC 2
CC 3
CC 4
CC MUTE
CLOSED CAP
CAPTION MODE
TEXT MODE TXT 1
OFF
TXT 1
TXT 2
TXT 3
TXT 4
LOCATOR
POWER
TV
AV
ON/OFF
POSITION
FREEZE
VCR
SWAP
SOURCE
PIP CH
UP
DN
ACC
1 2 3
4 5 6
7 8 9
SMART
0
SOUND
MENU
SURF
VOL
CH
MUTE
CC
STATUS
CLOCK
EXIT
TV/VCR
SLEEP
TUNER
A/B
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO
1
7
3
5
6
2
4
7

The CC button on the remote can also be used to enter the CLOSED CAPTION menu options directly.

CAPTION mode
Example Display

TEXT mode Example Display
TV screen will be
blocked from viewing


JOHN: Why did they move the meeting up to this week?
MARSHA: I don't know, but they are pushing to close the deal.


CLOSE CAPTION PROGRAMS ON WXYZ
ALL ITEMS ARE EASTERN STANDARD TIME (EST)
CHECK LOCAL LISTINGS
FOR TIMES IN YOUR AREA
6:00 TOP OF THE MORNING
10:00 THE BEST LITTLE CALL-IN SHOW EVER
12:00 NOONDAY NEWS
1:30 AS YOUR LIFE TURNS MY WORLD AROUND
6:00 WORLD NEWS FOR TODAY
9:00 PLAYHOUSE MOVIE OF THE WEEK

NOTE: The CC MUTE option can be used to set the TV to turn the Closed Caption mode "ON" whenever the MUTE button on the remote is pressed.

USING THE SLEEP TIMER CONTROL

Have you ever fallen asleep in front of the TV only to have it wake you up at two in the morning with a test pattern screeching in your ears? Well, your TV can save you all that trouble by automatically turning itself off.

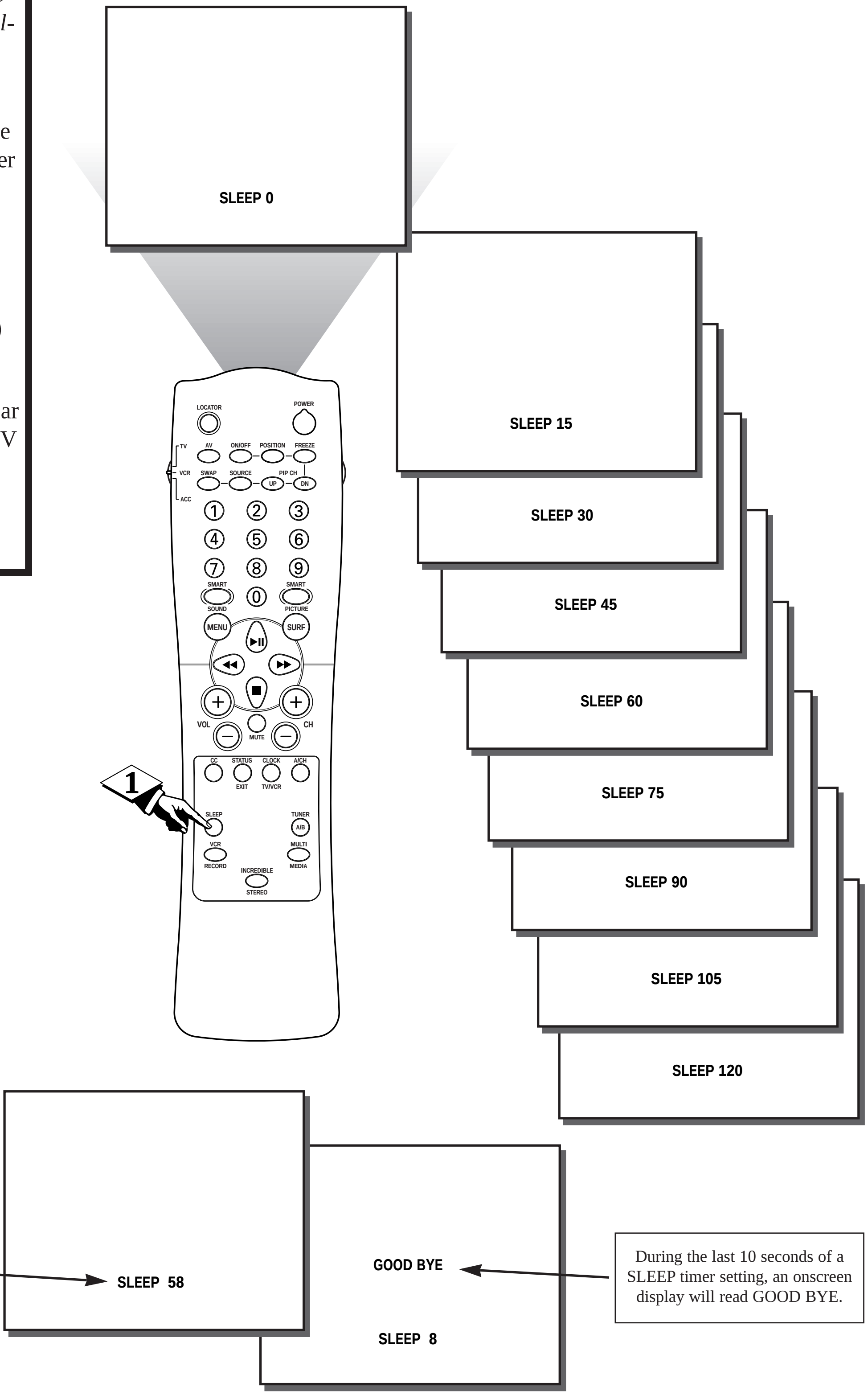
BEGIN

1. **Press the SLEEP button** on the remote control and the SLEEP timer onscreen display will appear in the lower center of the screen.

2. **Press the SLEEP button** repeatedly to pick the amount of time (15 minutes to 2 hours ahead) before the TV will turn itself off.

An onscreen count down will appear during the last minute before the TV shuts itself off.

STOP


SLEEP 0
SLEEP 15
SLEEP 30
SLEEP 45
SLEEP 60
SLEEP 75
SLEEP 90
SLEEP 105
SLEEP 120
1
LOCATOR
POWER
TV
VCR
ACC
AV
ON/OFF
POSITION
FREEZE
SWAP
SOURCE
PIP CH
UP
DN
SMART
SOUND
SMART
PICTURE
MENU
SURF
VOL
CH
MUTE
CC
STATUS
EXIT
CLOCK
TV/VCR
A/CH
SLEEP
TUNER
A/B
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO
SLEEP 58
GOOD BYE
SLEEP 8

During the last minute of a SLEEP timer setting, an onscreen count down will be displayed.

During the last 10 seconds of a SLEEP timer setting, an onscreen display will read GOOD BYE.

USING TREBLE, BASS, AND BALANCE SOUND CONTROLS

Besides the normal volume level control, your TV also has individual sound adjustment controls. The TREBLE (high frequency), BASS (low frequency), and Speaker BALANCE may all be used to adjust the sound playback of TV programs.

BEGIN

1 **Press the MENU button** on the remote to show the onscreen menu.

2 **Press the CURSOR DOWN ■ button** until the word **SOUND** is highlighted.

3 **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the right to display an adjustment bar in front of the **TREBLE** control.

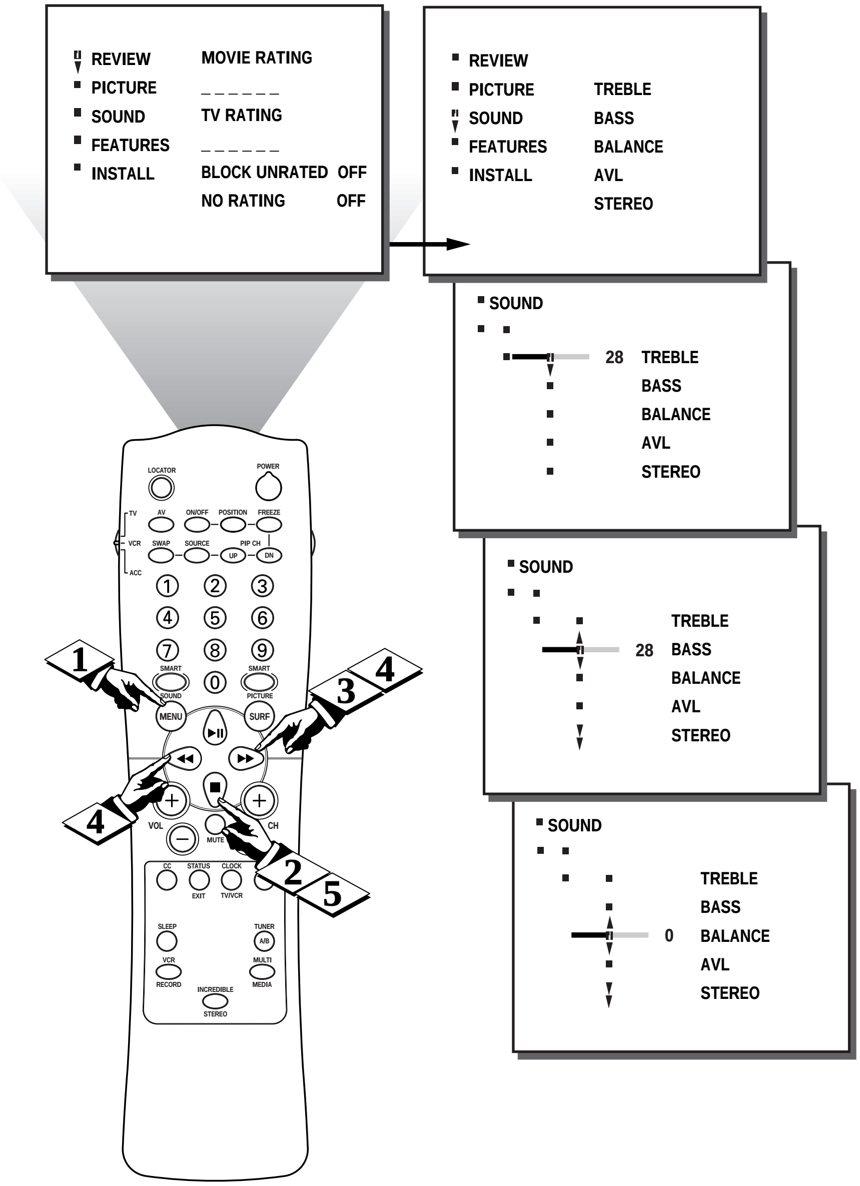
4 **Use the CURSOR LEFT ◀◀ or RIGHT ▶▶ buttons** to adjust the **TREBLE** *(high frequency)* level of the television's sound.

5 After adjusting the TREBLE control, **press the CURSOR DOWN ■ button** to select another Sound adjustment; **BASS or BALANCE.** Use the **CURSOR LEFT ◀◀** or **CURSOR RIGHT ▶▶ buttons** to adjust the selected control.

STOP

SMART HELP

Remember, when the bar scale is centered, Speaker BALANCE is centered between the TV's Left and Right side speakers.



REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
TV RATING
BLOCK UNRATED OFF
NO RATING OFF
REVIEW
PICTURE
SOUND
FEATURES
INSTALL
TREBLE
BASS
BALANCE
AVL
STEREO
SOUND
28 TREBLE
BASS
BALANCE
AVL
STEREO
SOUND
TREBLE
28 BASS
BALANCE
AVL
STEREO
SOUND
TREBLE
BASS
0 BALANCE
AVL
STEREO
LOCATOR
POWER
TV
AV
ON/OFF
POSITION
FREEZE
VCR
SWAP
SOURCE
PIP CH
UP
DN
ACC
1
2
3
4
5
6
7
8
9
SMART
SMART
0
SOUND
PICTURE
MENU
SURF
VOL
CH
MUTE
CC
STATUS
CLOCK
EXIT
TV/VCR
SLEEP
TUNER
A/B
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO
1
3
4
4
2
5

HOW TO SET THE TV FOR STEREO PROGRAMS

Your TV can receive broadcast stereo TV programs. The TV has both an amplifier and twin speakers through which the stereo sound can be heard.

BEGIN

1. **Press the MENU button** on the remote to show the onscreen menu. **PICTURE** will be highlighted.

2. **Press the CURSOR DOWN ■ button** to select the **SOUND** menu.

3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the right to display an adjustment bar in front of the **TREBLE** control.

4. **Press the CURSOR DOWN ■ button** to select the **STEREO** control.

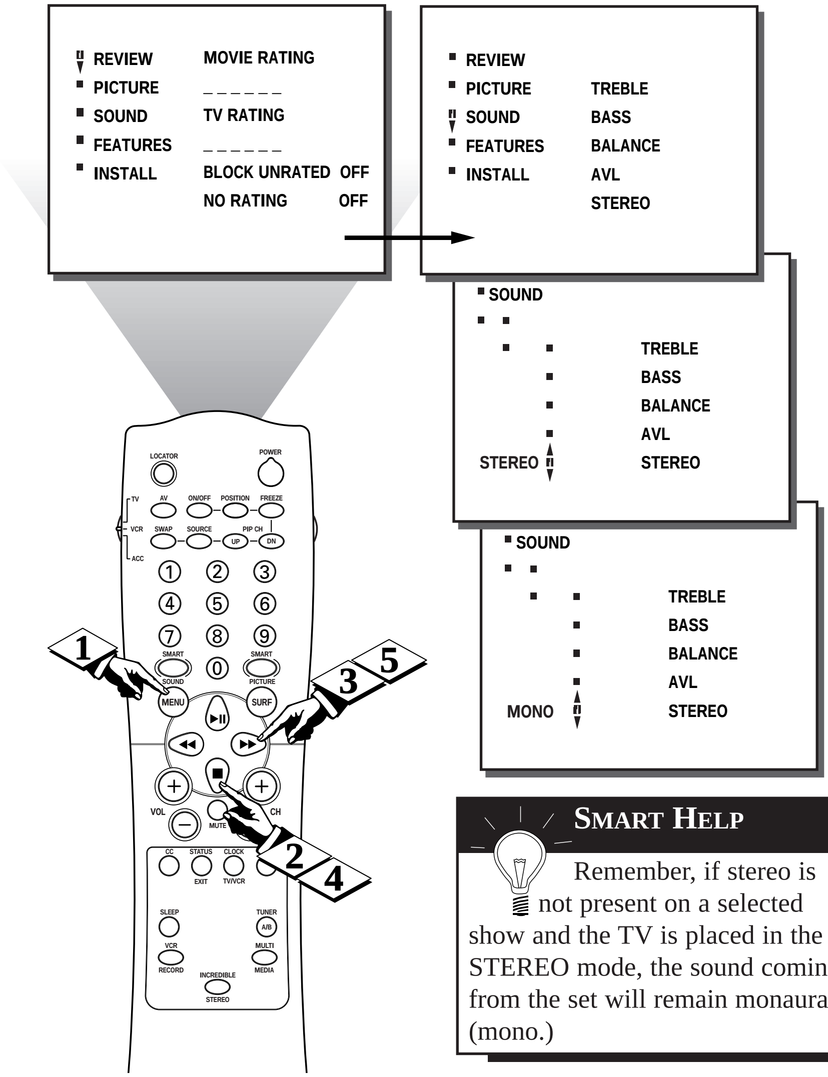
5. **Use the CURSOR LEFT ◀◀ or RIGHT ▶▶ buttons** to select **STEREO** or **MONO**. With STEREO selected the television will reproduce any stereo broadcast signal it receives.

STOP

SECOND AUDIO PROGRAM (SAP)

SAP is an additional part of the stereo broadcast system. Sent as a third audio channel SAP can be heard apart from the current TV program sound. TV stations are free to use SAP for any number of purposes, but many experts believe it will be used for foreign language translations of TV shows (or for weather and news bulletins.)

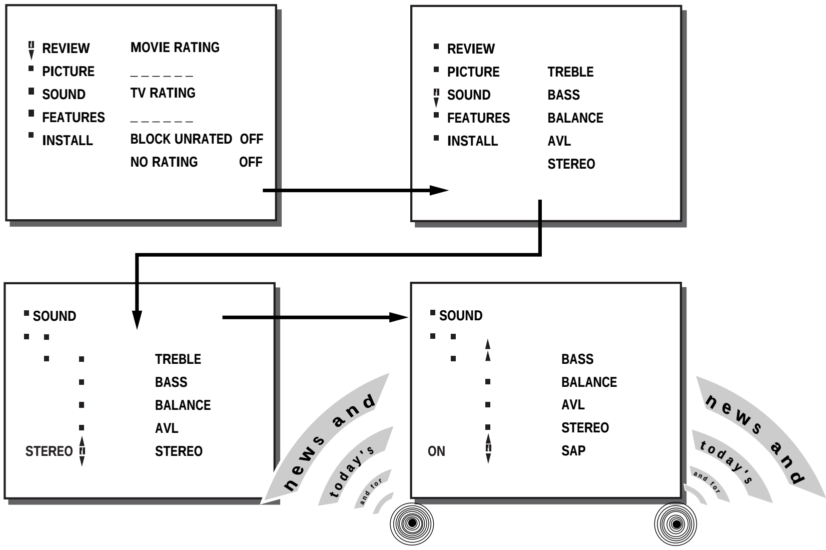
If a SAP signal is not present with a selected program, the SAP option cannot be selected. Also, if SAP is selected on a channel (with SAP) and you select another channel, when you return to the original channel SAP will be OFF (and you will have to reselect the SAP feature.)



REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
TV RATING
BLOCK UNRATED OFF
NO RATING OFF
TREBLE
BASS
BALANCE
AVL
STEREO
SOUND
STEREO
MONO
1
2
3
4
5
MENU
SURF

SMART HELP

Remember, if stereo is not present on a selected show and the TV is placed in the STEREO mode, the sound coming from the set will remain monaural (mono.)



REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
TV RATING
BLOCK UNRATED OFF
NO RATING OFF
TREBLE
BASS
BALANCE
AVL
STEREO
SOUND
STEREO
ON
SAP
news and
today's
and for

USING THE INCREDIBLE STEREO FEATURE

The Incredible Stereo feature adds greater depth and dimension to both monaural (MONO) and stereo TV sound. With the control turned ON the TV's speakers can add even wider sound separation to normal broadcasts.

BEGIN

1 **Press the MENU button** on the remote to show the onscreen menu.

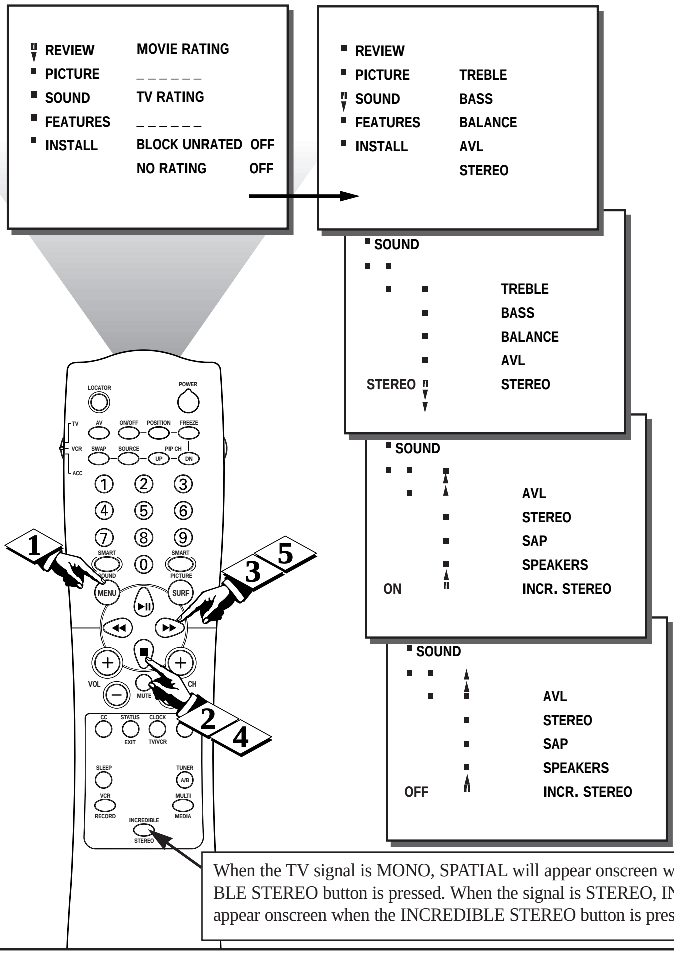
2 **Press the CURSOR DOWN ■ button** until the word **SOUND** is highlighted.

3 **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the right to display an adjustment bar in front of the **TREBLE** control.

4 **Press the CURSOR DOWN ■ button** to select the **INCR. STEREO** control.

5 **Use the CURSOR UP ▶ or DOWN ■ buttons** to turn this feature ON.

STOP



REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
TV RATING
BLOCK UNRATED OFF
NO RATING OFF
REVIEW
PICTURE
SOUND
FEATURES
INSTALL
TREBLE
BASS
BALANCE
AVL
STEREO
SOUND
TREBLE
BASS
BALANCE
AVL
STEREO
STEREO
SOUND
AVL
STEREO
SAP
SPEAKERS
INCR. STEREO
ON
SOUND
AVL
STEREO
SAP
SPEAKERS
INCR. STEREO
OFF
1
2
3
4
5
LOCATOR
POWER
MENU
SURF
VOL
CH
MUTE
INCREDIBLE STEREO

When the TV signal is MONO, SPATIAL will appear onscreen when the INCREDIBLE STEREO button is pressed. When the signal is STEREO, INCR. STEREO will appear onscreen when the INCREDIBLE STEREO button is pressed.

USING THE TV VOLUME BAR CONTROL

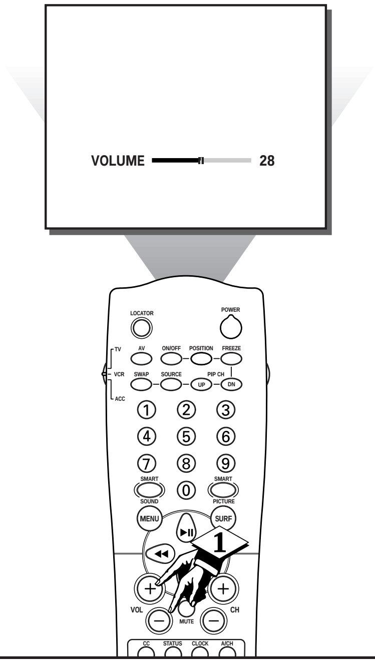
Use the Volume Bar control to see the TV's volume level setting on the TV screen. The Volume Bar will be seen each time the VOLUME buttons (on the TV or remote) are pressed.

BEGIN

1 **Press the VOLUME (+) or (–) buttons** on the remote to show the VOLUME bar display onscreen.

Press the VOLUME (+) or (–) buttons again to adjust the television's sound level.

STOP



VOLUME
28
1
MENU
SURF
VOL
CH
MUTE

SMART HELP

Try it out.
Press the VOL (+) and (–) buttons. The VOLUME BAR should appear near the bottom center of the screen.

USING THE TV SPEAKER CONTROL AND AUDIO OUTPUT JACKS

Would you like to hear TV programs through your audio hi-fi system? The TV's Audio Output jacks and TV Speaker On/Off control work together to offer you this TV sound option.

BEGIN

1 **Connect the R(ight) and L(eft) AUDIO OUT** jacks on the TV to the R and L Audio Input jacks on your amplifier or sound system. Set the audio system's volume to normal listening level.

2 **Turn the TV** and audio system ON. You can now adjust the sound level coming from the audio system with the VOLUME (+) or (–) buttons on the TV or remote.

3 To hear the TV sound from only the audio system speakers.

Press the MENU button on the remote to show the onscreen menu.

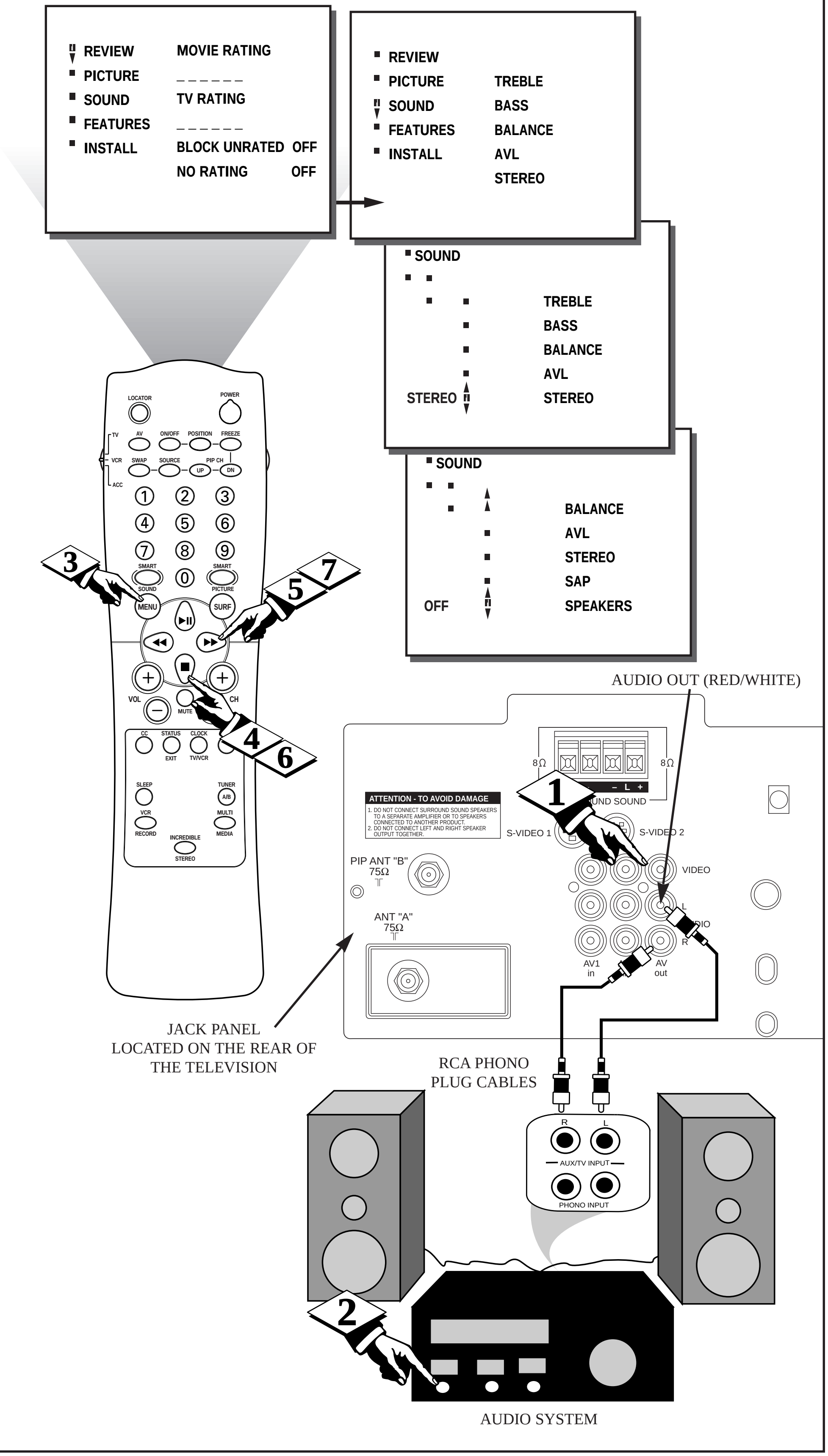
4 **Press the CURSOR DOWN ■ button** until the word **SOUND** is highlighted.

5 **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the right to display an adjustment bar in front of the **TREBLE** control.

6 **Press the CURSOR DOWN ■ button** to select the **SPEAKER** control.

7 **Use the CURSOR RIGHT ▶▶ or CURSOR LEFT ◀◀ buttons** to select turn the television's speakers **OFF**. You should now only hear TV sound coming from the audio system speakers.

STOP


REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
TV RATING
BLOCK UNRATED OFF
NO RATING OFF
REVIEW
PICTURE
SOUND
FEATURES
INSTALL
TREBLE
BASS
BALANCE
AVL
STEREO
SOUND
TREBLE
BASS
BALANCE
AVL
STEREO
STEREO
SOUND
BALANCE
AVL
STEREO
SAP
SPEAKERS
OFF
3
5
7
4
6
1
2
LOCATOR
POWER
MENU
SURF
VOL
CH
MUTE
AUDIO OUT (RED/WHITE)
ATTENTION - TO AVOID DAMAGE
S-VIDEO 1
S-VIDEO 2
PIP ANT "B" 75Ω
ANT "A" 75Ω
VIDEO
AV1 in
AV out
JACK PANEL LOCATED ON THE REAR OF THE TELEVISION
RCA PHONO PLUG CABLES
AUX/TV INPUT
PHONO INPUT
AUDIO SYSTEM

SMART HELP

Remember, the audio system may have to be in AUX(iliary) mode to play sound from the TV.

USING THE SURROUND SOUND EXTERNAL SPEAKER CONNECTIONS

By adding optional external speakers to the TV's sound system, you can create the feeling of reflected sound that surrounds you at a movie theater or concert hall.

BEGIN

1 **Connect both external speakers** to the speaker wire terminals on the TV.

Recommended speakers: 8 ohm, 15 watt minimum. Be sure the (+) and (–) speaker wires are connected to the correct R(ight) and L(eft) speaker terminals on the TV.

2 **Place the speakers** so the viewing area is between the TV and the rear surround speakers. (See overhead view drawing.)

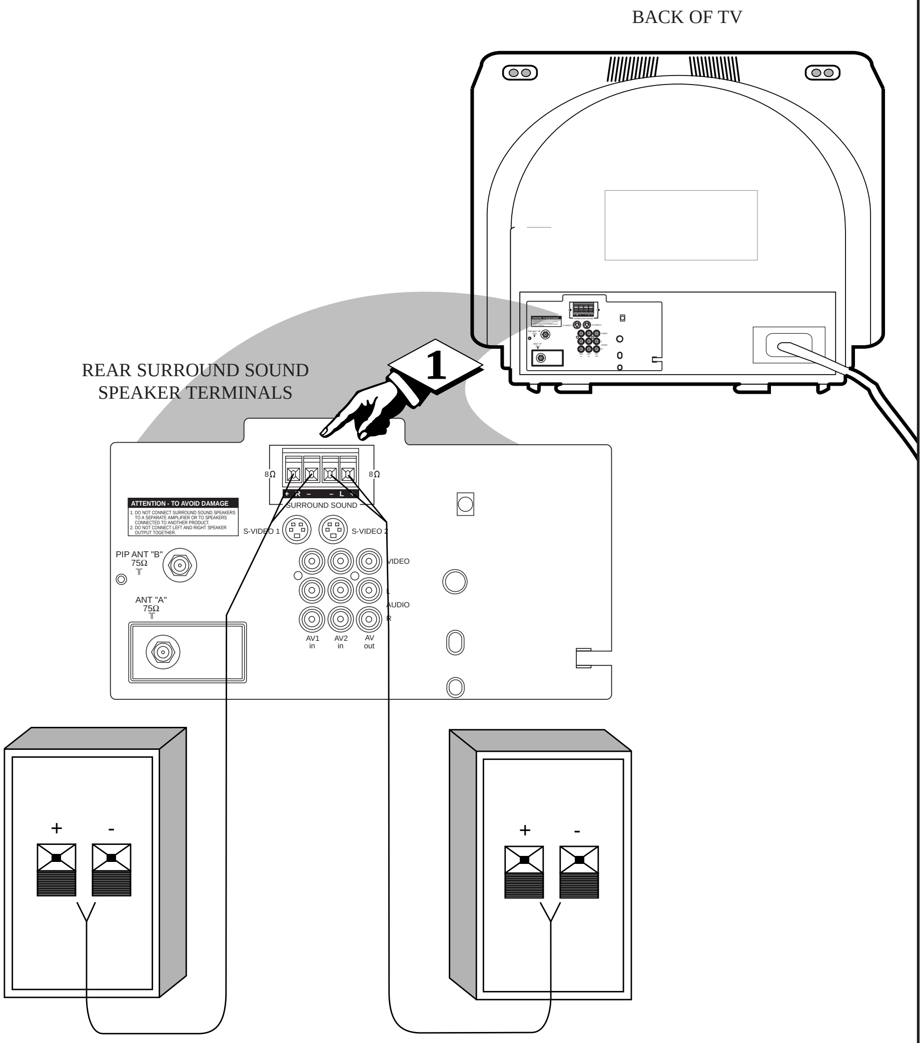
3 **Turn the TV and the STEREO control ON.**

After setup whenever a stereo signal is received the audio will be heard in Surround Sound.

STOP

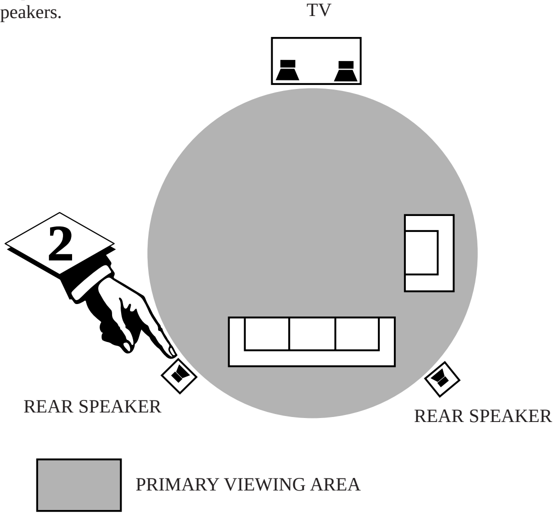
SMART HELP

Remember, Surround Sound will not work with only one speaker connected; or with monaural audio material (unless the Incredible Stereo feature is turned ON).


BACK OF TV
1
REAR SURROUND SOUND SPEAKER TERMINALS
8Ω
8Ω
R
L
SURROUND SOUND
ATTENTION - TO AVOID DAMAGE
S-VIDEO 1
S-VIDEO 2
PIP ANT "B" 75Ω
ANT "A" 75Ω
VIDEO
AUDIO
AV1 in
AV2 in
AV out
+
-
+
-

REAR SURROUND SOUND SPEAKERS

Note: The rear Surround Sound speakers will not be heard at the same volume level as the front TV speakers. It is intended for the rear speakers to give a background noise effect which requires a lower volume level than the TV's front speakers.


TV
2
REAR SPEAKER
REAR SPEAKER
PRIMARY VIEWING AREA

HOW TO USE THE AUDIO/VIDEO INPUT JACKS

AUDIO/VIDEO INPUTS

The TV's Audio/Video Input jacks are for direct picture and sound connections between the TV and a VCR (or similar device) that has Audio/Video Output jacks.

BEGIN

1 **Connect the VIDEO (yellow) CABLE** to the VIDEO IN jack on the back of the TV. Then connect the AUDIO (red and white) CABLES to the AUDIO (left and right) IN jacks on the rear of the TV (AV 1 or AV 2)**.**

2 **Connect the VIDEO (yellow) CABLE** to the VIDEO OUT jack on the back of the VCR. Then connect the AUDIO (red and white) CABLES to the AUDIO (left and right) OUT jacks on the rear of the VCR.

3 **Turn the VCR and the TV ON.**

4 **Use the A/V button** on the remote to select the AV 1 channel.

With the VCR ON and a prerecorded tape inserted, **press the PLAY button** to view the tape on the television.

STOP

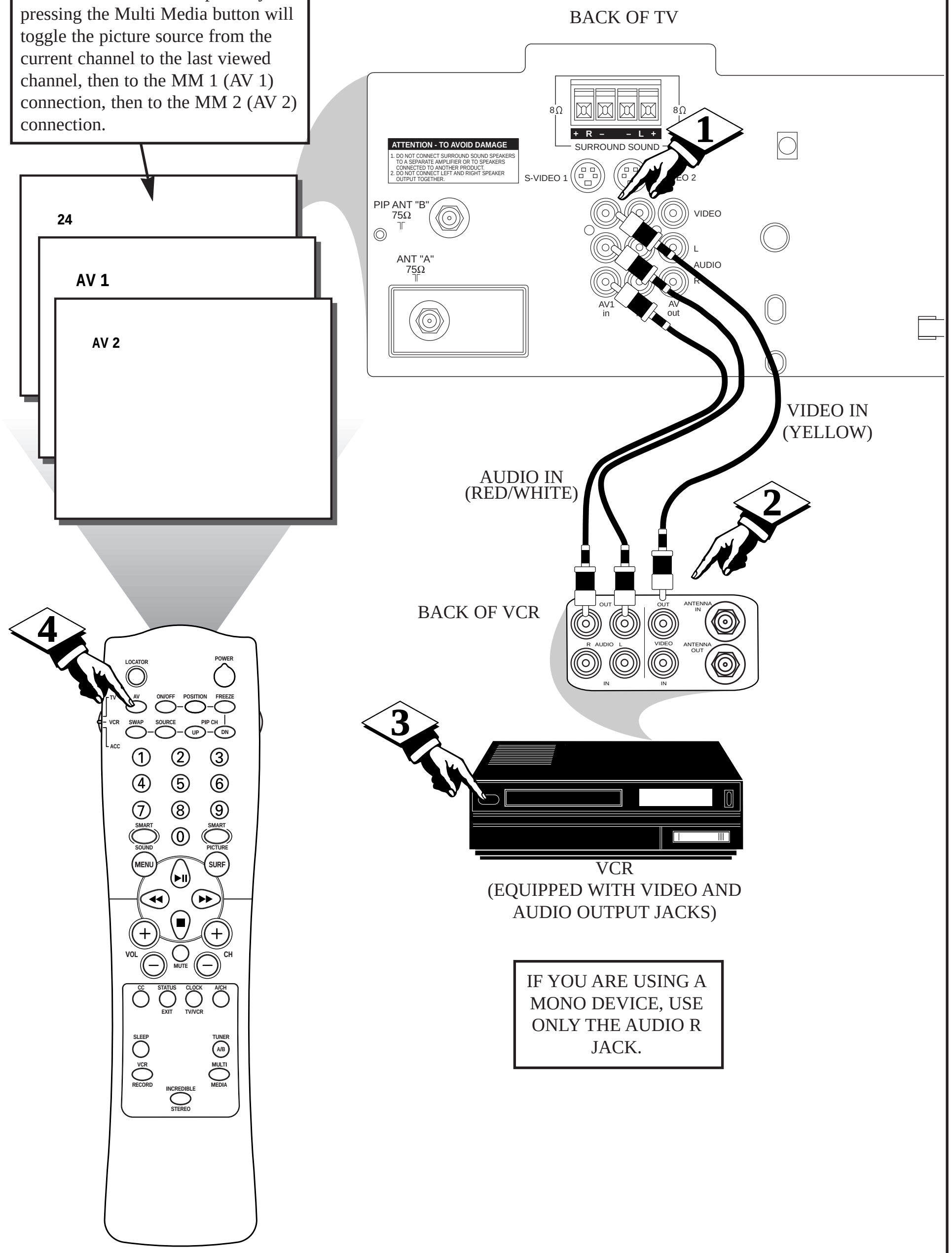
SMART HELP

An additional accessory device can be hookup by repeating the steps above using the AV 2 inupt jacks.

NOTE: Repeatedly pressing the AV button on the remote will toggle the picture source from the current channel, to the last channel viewed, then to the AV 1 connection, then to the AV 2 connection.
This also applies to the Multi Media button on the remote. Repeatedly pressing the Multi Media button will toggle the picture source from the current channel to the last viewed channel, then to the MM 1 (AV 1) connection, then to the MM 2 (AV 2) connection.

When using the Audio/Video AV 1 input jacks, the video and sound can be viewed and heard on the AV 1 channel.

When using the Audio/Video AV 2 input jacks, the video and sound can be viewed and heard on the AV 2 channel.


BACK OF TV
1
SURROUND SOUND
ATTENTION - TO AVOID DAMAGE
S-VIDEO 1
PIP ANT "B" 75Ω
ANT "A" 75Ω
VIDEO
L
AUDIO
R
AV1 in
AV out
24
AV 1
AV 2
VIDEO IN (YELLOW)
AUDIO IN (RED/WHITE)
2
BACK OF VCR
OUT
IN
AUDIO
VIDEO
ANTENNA IN
ANTENNA OUT
4
3
LOCATOR
POWER
AV
MENU
SURF
VOL
CH
MUTE

VCR
(EQUIPPED WITH VIDEO AND AUDIO OUTPUT JACKS)

IF YOU ARE USING A MONO DEVICE, USE ONLY THE AUDIO R JACK.

HOW TO USE THE AUDIO/VIDEO INPUT JACKS

S-VIDEO INPUT

The S(uper)-Video connection on the rear of the television can give you better picture detail and clarity, for the playback of S-VHS VCR tapes, or Digital Video Discs than the normal antenna picture connections.

Note: The accessory device being used must have a S-Video Output to complete this connection.. The following steps show the connections to the S-VIDEO 1 and AV 1 input jacks. To hookup an additional device to S-VIDEO 2 and AV 2 input jacks, repeat the procedure.

BEGIN

1 **Connect the S-VIDEO CABLE** to the S-VIDEO 1 input jack on the rear of the television, then the AUDIO (red and white) to the AUDIO IN (AV 1) jacks on the rear of the TV.

2 **Connect the S-VIDEO CABLE** to the S-VIDEO output jack on the accessory device. Then connect the red and white AUDIO CABLES to the AUDIO (left and right) output jacks on the rear of the accessory device.

3 **Turn the VCR (or Digital Video Disc Player) ON.**

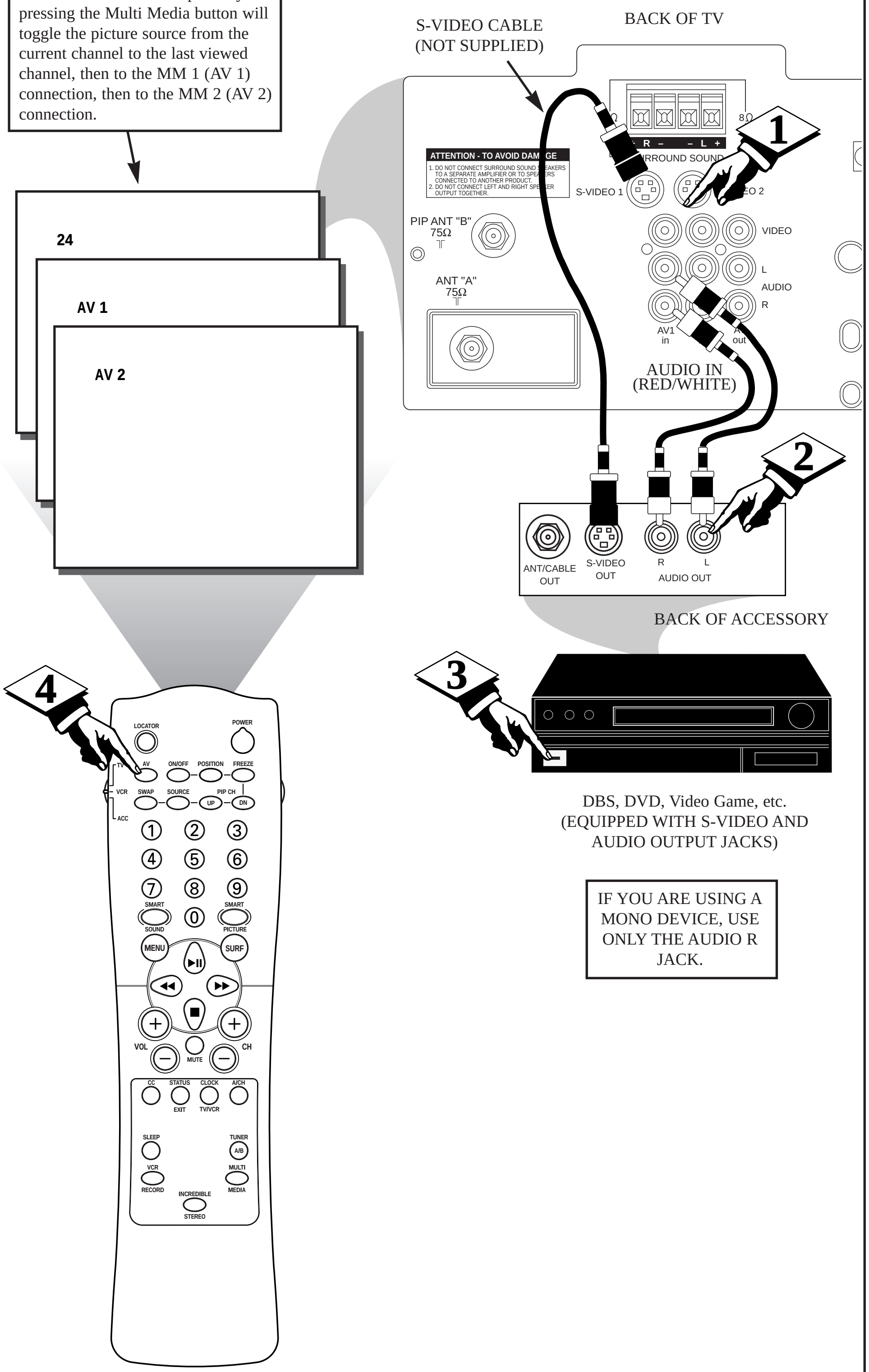
4 **Press the AV button** on the remote to tune to the SVID-R channel. You are now ready to view the tape or disc on the TV.

STOP

NOTE: Repeatedly pressing the AV button on the remote will toggle the picture source from the current channel, to the last channel viewed, then to the AV 1 connection, then to the AV 2 connection.
This also applies to the Multi Media button on the remote. Repeatedly pressing the Multi Media button will toggle the picture source from the current channel to the last viewed channel, then to the MM 1 (AV 1) connection, then to the MM 2 (AV 2) connection.

When using the S-VIDEO 1 and AV 1 Audio input jacks, the video and sound can be viewed and heard on the AV 1 channel.

When using the S-VIDEO 2 and AV 2 Audio input jacks, the video and sound can be viewed and heard on the AV 2 channel.


S-VIDEO CABLE
(NOT SUPPLIED)
BACK OF TV
ATTENTION - TO AVOID DAMAGE
SURROUND SOUND
S-VIDEO 1
PIP ANT "B" 75Ω
ANT "A" 75Ω
VIDEO
L
AUDIO
R
AV1 in
AUDIO IN
(RED/WHITE)
1
2
3
4
24
AV 1
AV 2
ANT/CABLE OUT
S-VIDEO OUT
R
L
AUDIO OUT
BACK OF ACCESSORY
LOCATOR
POWER
AV
ON/OFF
POSITION
FREEZE
TV
VCR
ACC
SWAP
SOURCE
PIP CH
UP
DN
SMART
SOUND
PICTURE
MENU
SURF
VOL
CH
MUTE
CC
STATUS
CLOCK
A/CH
EXIT
TV/VCR
SLEEP
TUNER
A/B
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO

DBS, DVD, Video Game, etc.
(EQUIPPED WITH S-VIDEO AND AUDIO OUTPUT JACKS)

IF YOU ARE USING A MONO DEVICE, USE ONLY THE AUDIO R JACK.

USING THE REMOTE LOCATOR FEATURE

Have you ever played hide and seek with your remote control? Are you tired of tearing the house apart trying to find if someone has stuffed the remote under the couch, put it on the shelves, or hid it in the desk? Well, your TV remote can save you all that looking by automatically signaling its location to you.

Here's how it works:

BEGIN

1 **Press the POWER button** on the set to turn the TV ON.

Note: Normally you can press any button on the front of the TV to turn the set ON. But for the remote locator to work you need to be sure to use the Power button at the TV.

A “locating remote” message shows on the TV screen.

2 **Within a few seconds a chirping or beeping** sound will begin to come from the remote control hand unit.

The remote will continue to signal its location for around 30 seconds. Normal TV program sound will not be heard while the remote locator is working.

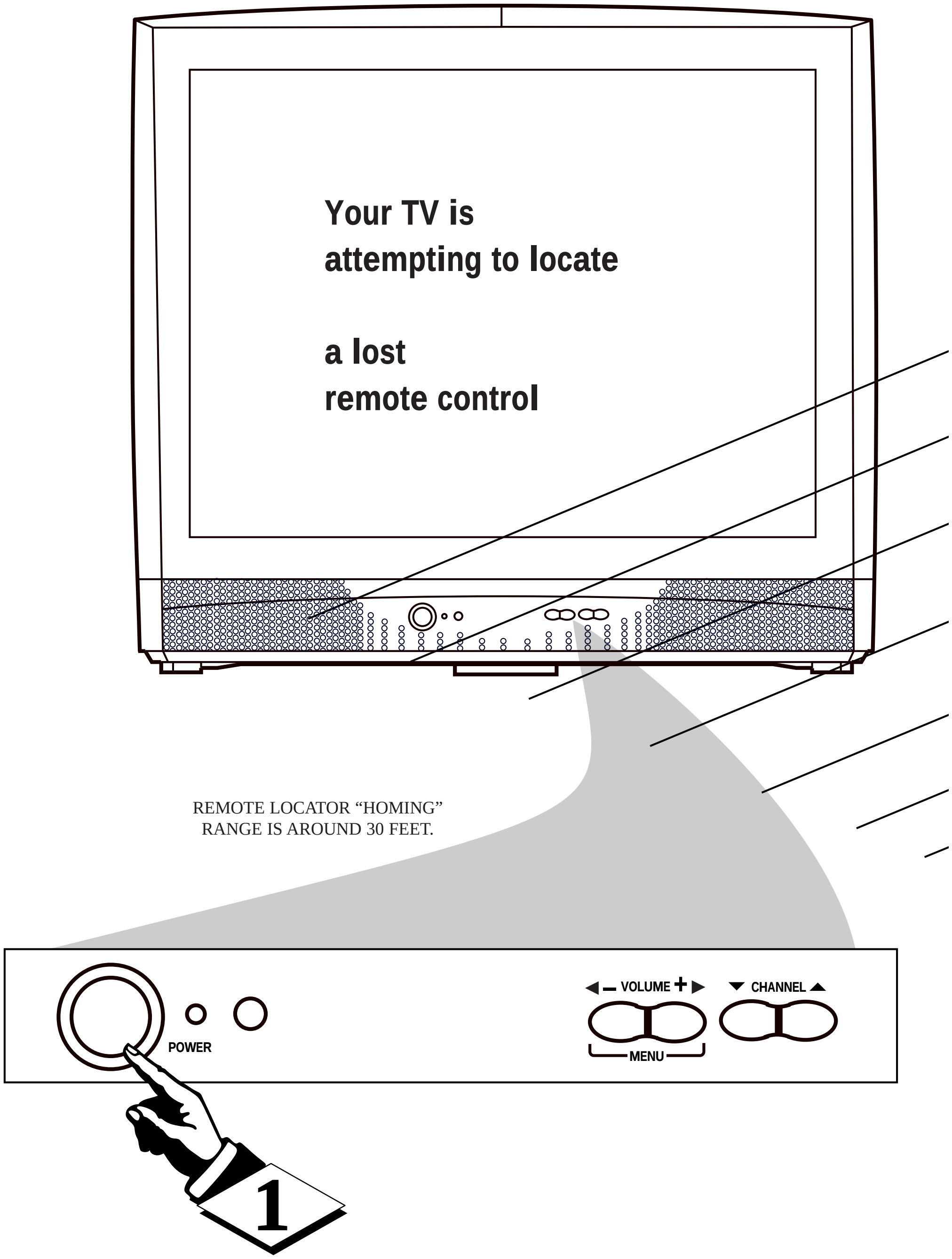
3 **Once you find the remote** just press any button on the remote and the beeping will stop.

The remote is now ready for normal TV feature use.

STOP

SMART HELP

Remember, the remote locator may not properly receive its “homing” signal from the TV if it has been placed on a metal shelf or counter material.



REMOTE LOCATOR “HOMING” RANGE IS AROUND 30 FEET.

USING THE REMOTE LOCATOR FEATURE

ADDRESS CODE PROGRAMMING OF THE REMOTE

For most homes this step would not be needed but for your information:

Up to 9 different remote locator address codes can be set on which the TV can send out its "homing" signal.

*This is done in case there is more than one TV (with remote locator) present, and you want only one specific remote to be signaled when the TV is turned ON.**

To set a Locator Address Code:

BEGIN

1 With the TV turned ON, **press the LOCATOR CODE button** on the remote. (Also be sure the TV/VCR/ACC SYSTEM switch is in the TV mode.)

2 **The TV shows** the present Remote Locator Code.

Remote Locator Code
is set to 5

Press any number key
to change code

3 **Press any number button (0-9)** on the remote to set or change the Locator Code.

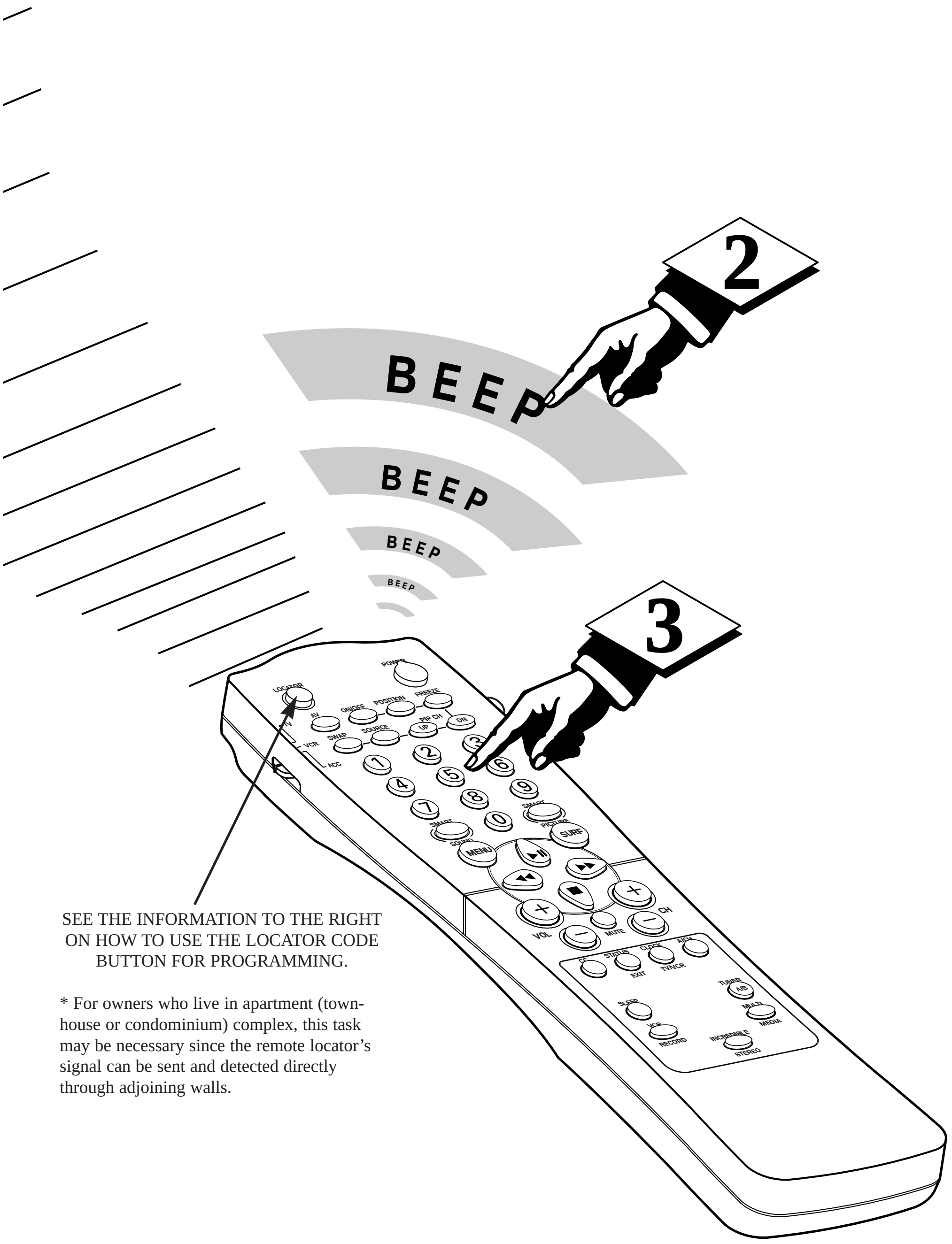
Remote Locator Code
has been changed

new code is 2

SMART HELP

Remember, if the batteries are replaced the Locator Code will need to be reentered.

When setting the Locator Code if any button, other than the number buttons are pressed, the remote will return to its normal operation mode.



SEE THE INFORMATION TO THE RIGHT ON HOW TO USE THE LOCATOR CODE BUTTON FOR PROGRAMMING.

* For owners who live in apartment (town-house or condominium) complex, this task may be necessary since the remote locator's signal can be sent and detected directly through adjoining walls.

USING THE SMARTPICTURE CONTROL

Whether you're watching a movie or a video game, you TV has automatic video control settings matched for your current program source or content. The SmartPicture feature quickly resets your TV's video controls for a number of different types of programs and viewing conditions you may have in your home. Each SmartPicture setting is preset at the factory to automatically adjust the TV's Brightness, Color, Picture, Sharpness, Tint, and Color Temperature levels.

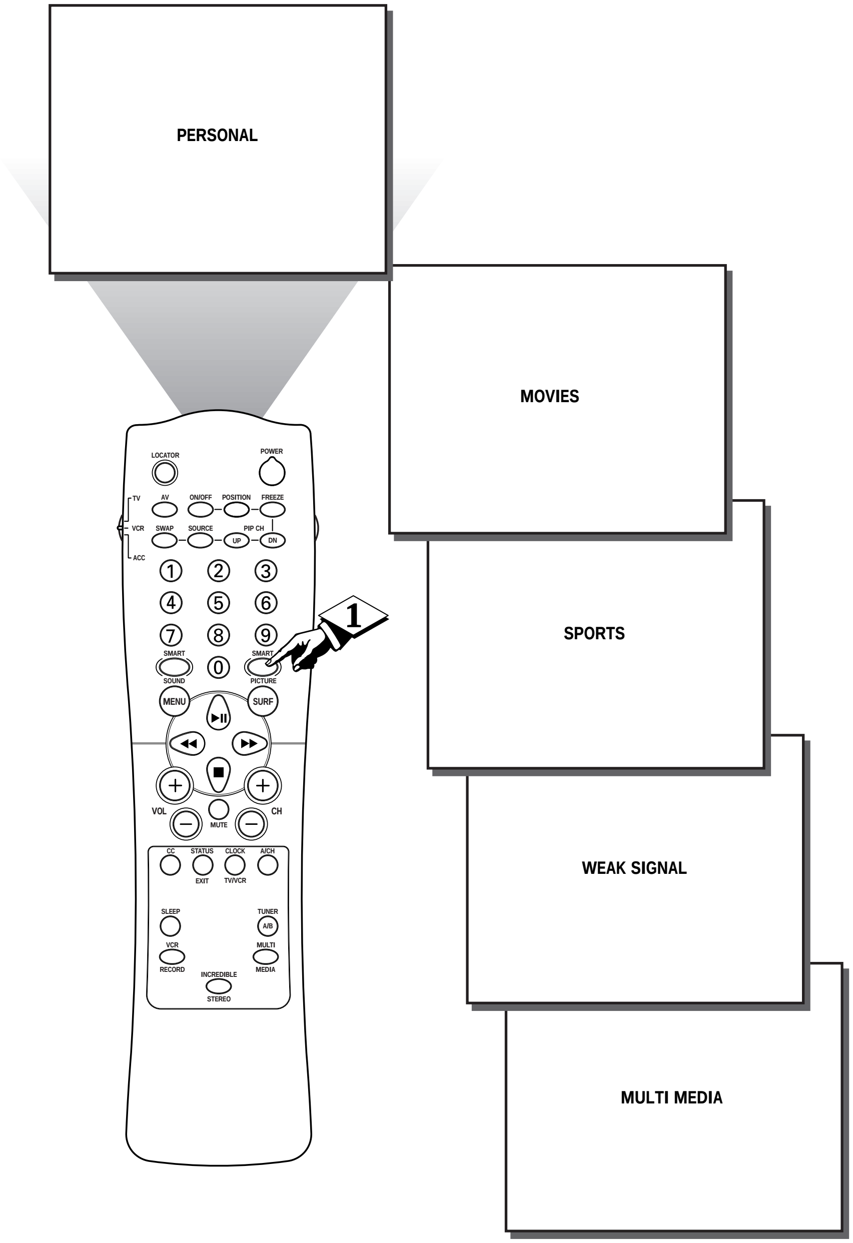
BEGIN

1 **Press the SMART PICTURE button** on the remote control. The current SmartPicture setting will appear in the middle of the screen.

2 **Press the SmartPicture button repeatedly** to select either PERSONAL, MOVIES, SPORTS, WEAK SIGNAL, or MULTI MEDIA picture settings.

Note: The PERSONAL setting is the setting that you setup using the PICTURE options within the onscreen menu. This is the only setting that can be changed. All other setting are setup at the factory during the time of production.

STOP


PERSONAL
MOVIES
SPORTS
WEAK SIGNAL
MULTI MEDIA
1
LOCATOR
POWER
TV
AV
ON/OFF
POSITION
FREEZE
VCR
SWAP
SOURCE
PIP CH
UP
DN
ACC
1 2 3
4 5 6
7 8 9
0
SMART SOUND
SMART PICTURE
MENU
SURF
VOL
CH
MUTE
CC
STATUS
CLOCK
A/CH
EXIT
TV/VCR
SLEEP
TUNER A/B
VCR RECORD
MULTI MEDIA
INCREDIBLE STEREO

USING THE SMARTSOUND CONTROL

The SmartSound feature allows the listener to select between four different factory-set sound options. Personal (which can be set by the user), Theater (for movie viewing), Music (for musical programming) and Voice (when the program is mainly dialogue). To select any of the options, follow the directions below.

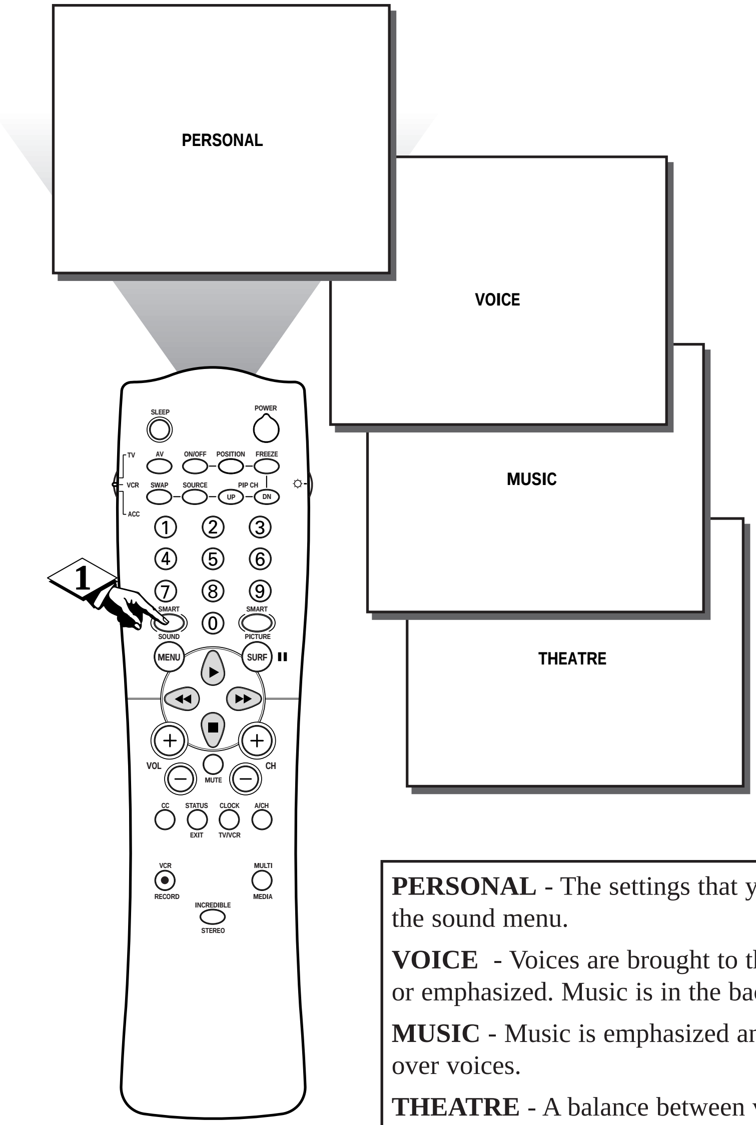
BEGIN

1 **Press the SMART SOUND button** on the remote control. The current SmartSound setting will appear in the middle of the screen.

2 **Press the SMART SOUND button repeatedly** to toggle between the four settings, PERSONAL, VOICE, MUSIC or THEATRE.

Remember, only the PERSONAL control can be changed by the viewer. This changes the settings in the main on-screen menu's sound controls.

STOP


PERSONAL
VOICE
MUSIC
THEATRE
1
SLEEP
POWER
TV
AV
ON/OFF
POSITION
FREEZE
VCR
SWAP
SOURCE
PIP CH
UP
DN
ACC
1
2
3
4
5
6
7
8
9
SMART
SOUND
0
SMART
PICTURE
MENU
SURF
VOL
CH
MUTE
CC
STATUS
CLOCK
A/CH
EXIT
TV/VCR
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO

PERSONAL - The settings that you make in the sound menu.

VOICE - Voices are brought to the forefront or emphasized. Music is in the background.

MUSIC - Music is emphasized and dominant over voices.

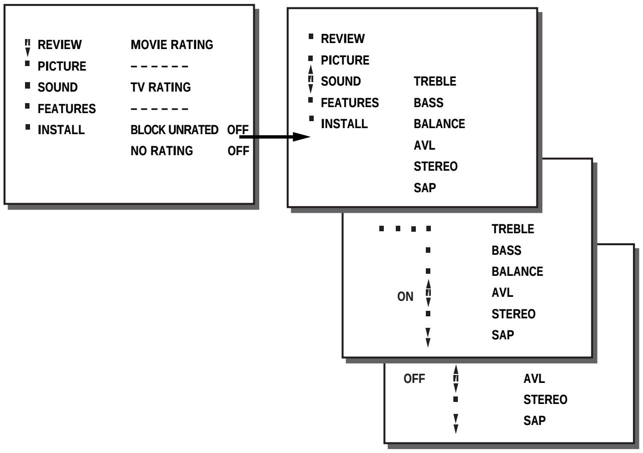
THEATRE - A balance between voices and music.

SMART HELP

Remember, SmartSound works only with the programs coming through the ANTENNA/CABLE (ANT A) input on the rear of the TV (RF audio). It will not control the sound levels for the External connections.

AVL CONTROL

In most cases, the volume levels coming from broadcast programming or commercials are never the same. With the AVL (Audio Volume Leveler) control turned ON, you can have the TV level out the sound being heard. This makes for a more consistent sound by reducing the peaks and valleys that occur during program changes or commercial breaks.


REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING

TV RATING

BLOCK UNRATED OFF
NO RATING OFF
REVIEW
PICTURE
SOUND
FEATURES
INSTALL
TREBLE
BASS
BALANCE
AVL
STEREO
SAP
TREBLE
BASS
BALANCE
ON
AVL
STEREO
SAP
OFF
AVL
STEREO
SAP

USING THE TV'S CHANNEL SURF CONTROL

A "list" or series of previously viewed channels can be selected with the SURF button on your remote control. With this feature you can easily switch between different TV programs that currently interest you. The SURF control allows you set up to ten channels in its quick viewing "list".

BEGIN

1 **Press the CHANNEL (+) or (–) buttons** (or the NUMBER buttons) to select a channel to add to the SURF list.

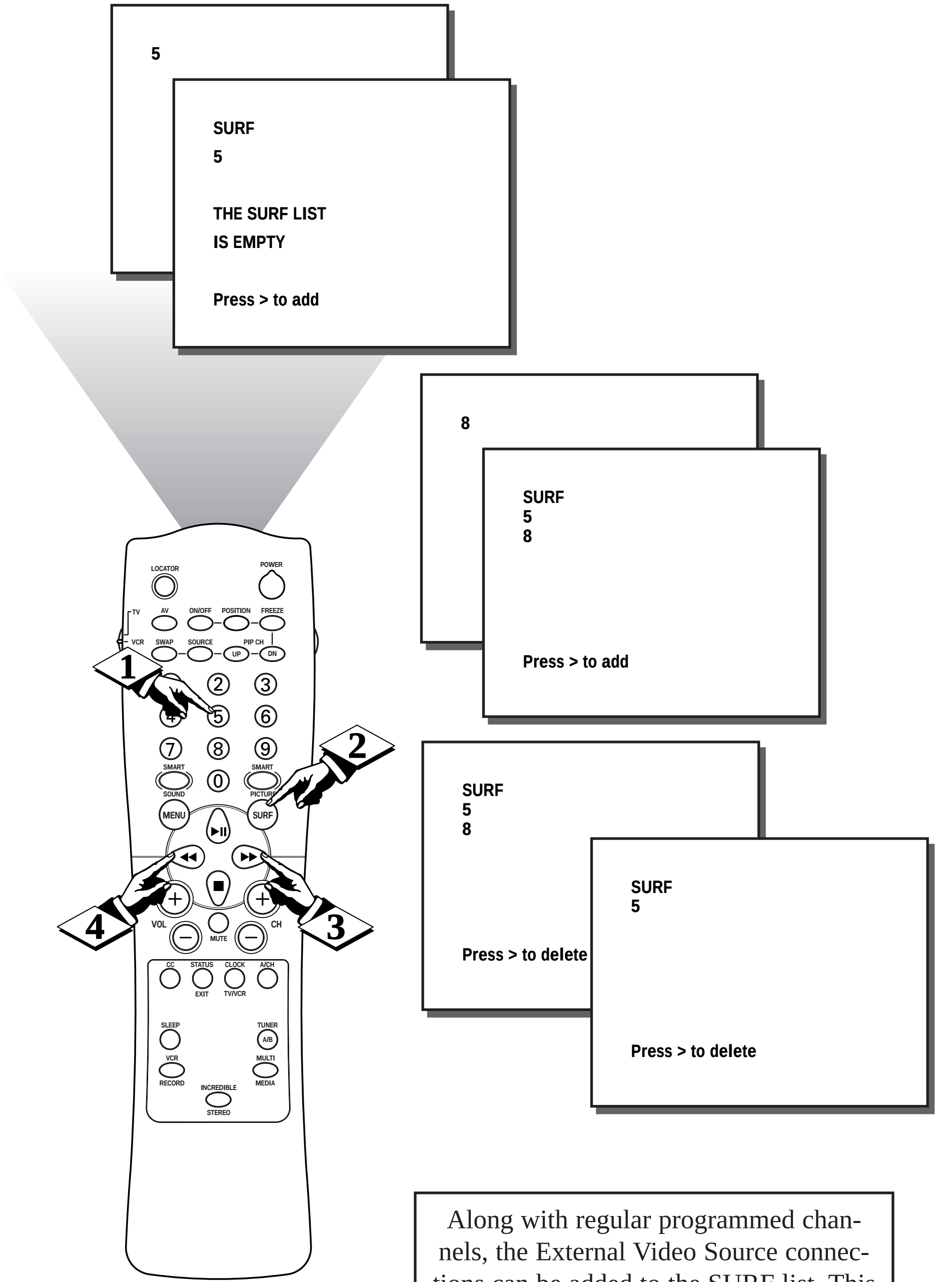
2 **Press the SURF button** on the remote. The onscreen display will read, **"THE SURF LIST IS EMPTY, Press > to add"**.

3 **Press the CURSOR RIGHT ▶▶ button** to add the present channel to the SURF list.

4 **Press the CURSOR LEFT ◀◀ button** to delete the present channel from the SURF list.

Repeat steps 1 through 3 to add additional channels (up to 10) to the SURF list.

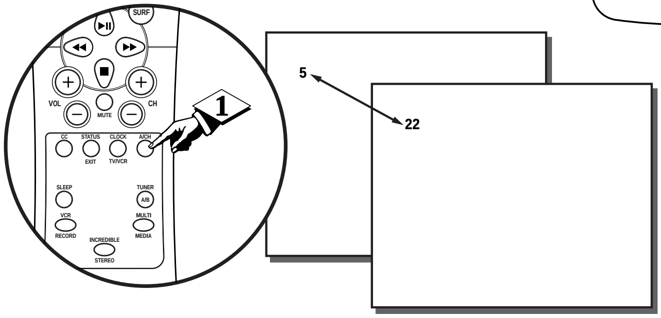
STOP


5
SURF
5
THE SURF LIST
IS EMPTY
Press > to add
8
SURF
5
8
Press > to add
SURF
5
8
Press > to delete
SURF
5
Press > to delete
1
2
3
4
LOCATOR
POWER
TV
VCR
AV
ON/OFF
POSITION
FREEZE
SWAP
SOURCE
PIP CH
UP
DN
SMART
SOUND
SMART
PICTURE
MENU
SURF
VOL
CH
MUTE
CC
STATUS
EXIT
CLOCK
TV/VCR
A/CH
SLEEP
TUNER
A/B
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO

Along with regular programmed channels, the External Video Source connections can be added to the SURF list. This means the AV 1, AV 2, MM 1, and MM 2 channels can be added to your SURF list. Just tune to their channel and us the same procedure described on this page.

A/CH BUTTON

Your remote also has an A/CH (Alternate Channel) button. Pressing this button will toggle between the Current and previously viewed channel.


SURF
VOL
CH
MUTE
CC
STATUS
CLOCK
A/CH
EXIT
TV/VCR
1
SLEEP
TUNER
A/B
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO
5
22

SETTING THE REMOTE CONTROL TO WORK WITH OTHER DEVICES

Your remote control is set to work your TV and many infrared remote (IR) control VCRs, Cable Boxes, Satellite Systems, DSS, DVD, etc. However, an easy onetime step may be necessary before the remote will work your VCR.

Try this initial check to see if going on to the following section is necessary.

BEGIN

1 **Place the TV/VCR/ACC Mode Switch** in the proper position.

2 **Point the remote control** at the device and press the POWER button.

3 Does the remote turn the device ON?

If YES, stop and try other function buttons on the remote. If they also work the device, then the remote is ready and no further steps are needed.

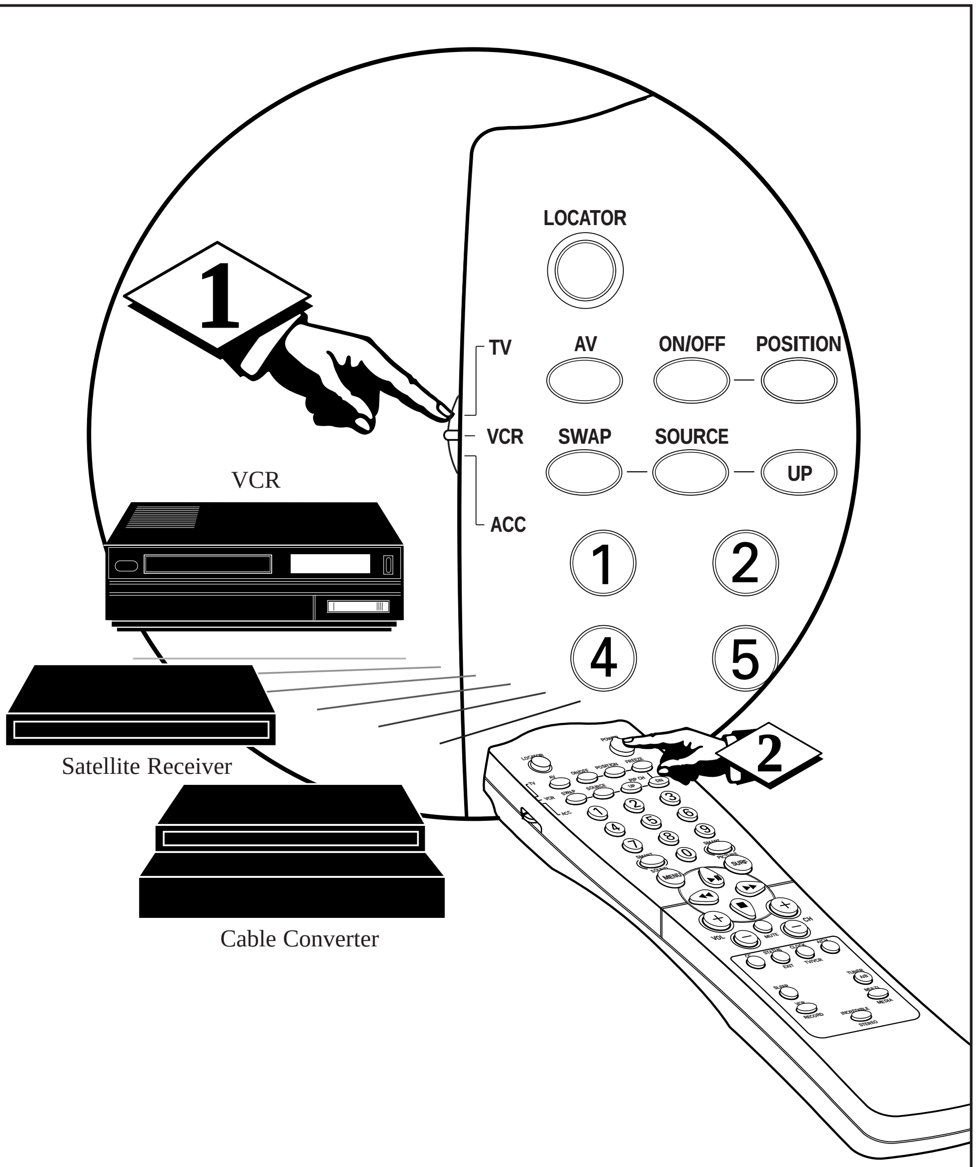
If NO, continue...

1 First look up a **THREE-DIGIT remote control number** for your brand of Device before going through the simple steps on the following page.

Find your Three-Digit Code on pages 42-43.

SMART HELP

Remember, if more than one number is listed, you may have to try more than the first Three-Digit code given in order to locate your Device's remote code.



SETTING THE REMOTE CONTROL TO WORK WITH OTHER DEVICES

Direct Access Method

Now that you have looked up the three-digit Remote Code Number for your brand of device, you are ready to follow the four simple steps below.

Please read through steps 1-5 before beginning.

BEGIN

1 **Place the TV/VCR/ACC Mode Switch** in the proper position.

2 **Press the VCR RECORD button** on the remote control and release.

3 **Press the SmartSound button** on the remote within 30 seconds, then release.

4 **Enter the THREE-DIGIT REMOTE CODE NUMBER** for your desired device. The remote is now ready to send commands to the unit.

5 **Point the remote** at the Device. Press the POWER button on the remote to turn the unit ON.

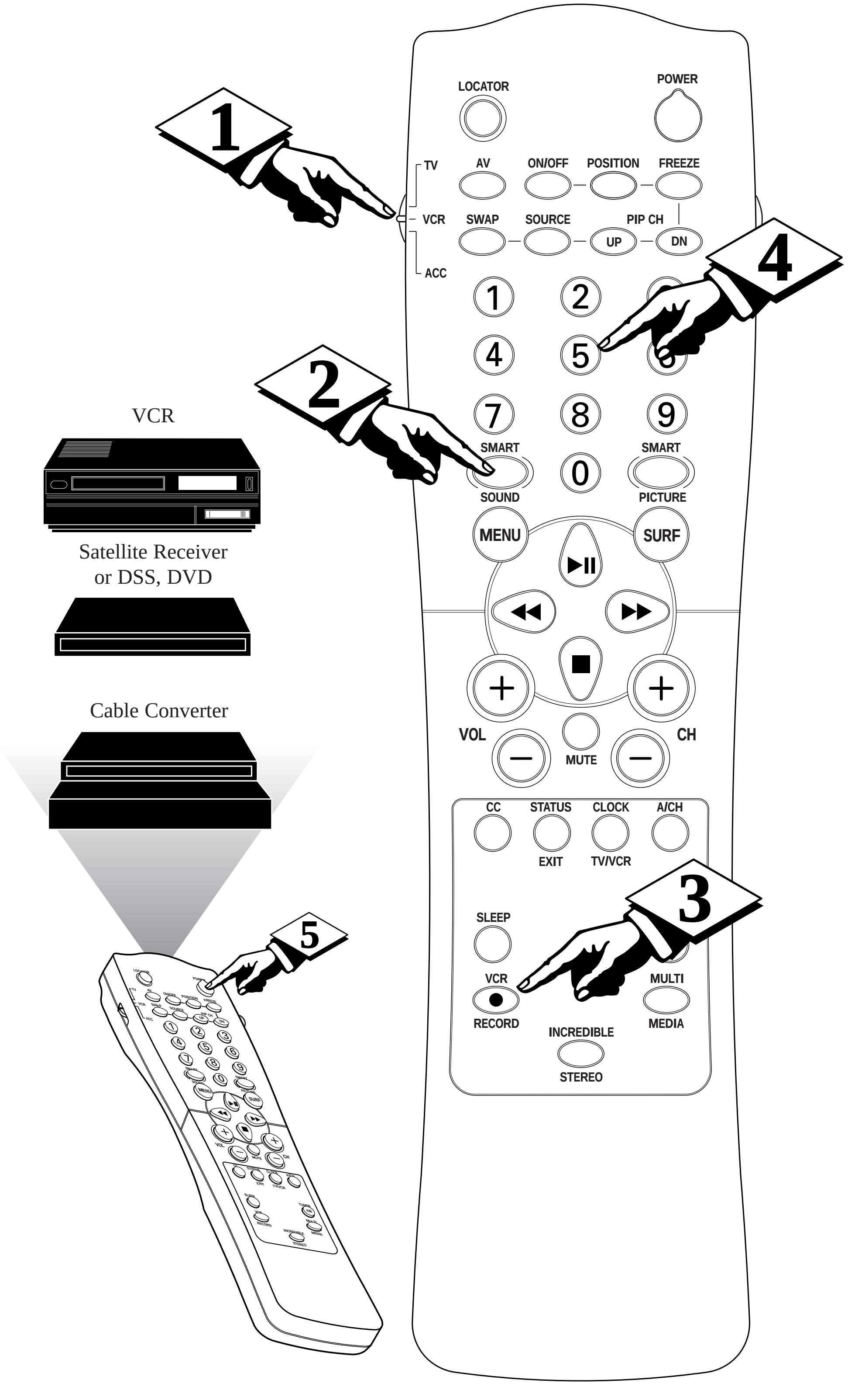
STOP

SMART HELP

Remember, if this doesn't work the first time, repeat steps using the same remote code number.

After a second try and the remote does not operate your device, see if there is another three-digit code number (pages 42-43) listed for your device and repeat the steps above using the new number.

If after repeated attempts the code number method does not work you device, try the **SEARCH METHOD** on page 41.


VCR
Satellite Receiver
or DSS, DVD
Cable Converter
1
2
3
4
5
LOCATOR
POWER
TV
VCR
ACC
AV
ON/OFF
POSITION
FREEZE
SWAP
SOURCE
PIP CH
UP
DN
1
2
4
5
7
8
9
SMART
SOUND
0
SMART
PICTURE
MENU
SURF
VOL
MUTE
CH
CC
STATUS
CLOCK
A/CH
EXIT
TV/VCR
SLEEP
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO

SETTING THE REMOTE CONTROL TO WORK WITH OTHER DEVICES

Search Method

Your TV remote can be set to work various external devices such as VCRs, Cable Boxes, Satellite Receivers, DBS, DVD, etc. by what is called the search method of remote control programming.

If the "Remote Code" number method shown on the previous page did not set your remote to work your external device, then follow the easy steps listed below.

Please read steps 1-4 before beginning.

BEGIN

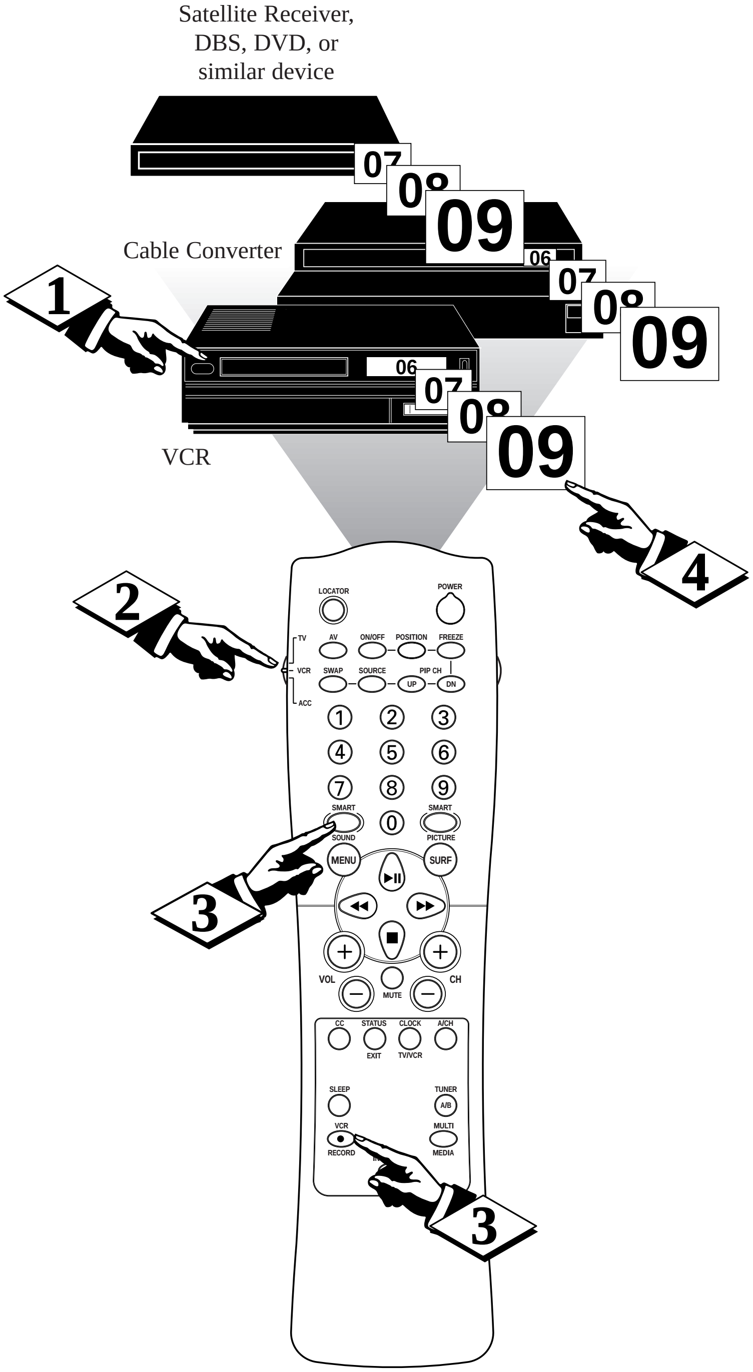
1. **Press the POWER button** on the device your are attempting to program to turn ON.

2. **Place the TV/VCR/ACC Mode Switch** in the proper position.

3. **Press the VCR RECORD and the SMART SOUND buttons simultaneously** and hold them down.

4. The device will begin to change channels after the remote identifies the correct code. When the channels start to change release the VCR RECORD and SMART SOUND buttons. The remote should be ready to operate the device.

STOP


Satellite Receiver, DBS, DVD, or similar device
Cable Converter
VCR
06
07
08
09
1
2
3
4
LOCATOR
POWER
TV
AV
ON/OFF
POSITION
FREEZE
VCR
SWAP
SOURCE
PIP CH
UP
DN
ACC
SMART SOUND
SMART PICTURE
MENU
SURF
VOL
CH
MUTE
CC
STATUS
CLOCK
A/CH
EXIT
TV/VCR
SLEEP
TUNER A/B
VCR RECORD
MULTI MEDIA

SMART HELP

This method can take up to two minute to preform.

Don't let the device scan up more than five channels. If you do the remote may pass up the right code and another two minute search cycle will have to be repeated.

If no channel change happens within two minutes, repeat steps 1-4. Should a channel change still not occur, the remote will not work the desired device.

REMOTE CONTROL DIRECT ENTRY CODES

VCR	REMOTE CODE NO.
Admiral	048
Advantz	358
Adventure	000
Aiko	278
Aiwa	000, 037, 307, 348, 352
Akai	041, 049, 053, 061, 106, 315
Alba	352
Amercian High	035
Amstrad	325, 332
Asha	240
Audiovox	037
Baird	107
Beaumark	240
Bell & Howell	104
Blaupunkt	003, 006, 154
Brandt	187, 320, 321
Broksonic	121, 184, 211, 295, 361
Bush	352
CCE	072, 278
Calix	037
Canon	035
Capehart	020
Carver	081, 146
Citizen	037, 278
Colt	072
Combitach	352
Craig	037, 047, 072, 240, 271
Curtis Mathes	035, 041, 060
Cybermax	051, 240
Daewoo	020, 045, 276
Daytron	020
Denon	042
Dynatech	000
Electrophonic	037
Emerex	032
Emerson	000, 002, 036, 037, 043, 061, 068, 088, 121, 164, 208, 209, 211, 212, 278, 295, 361, 479
Ferguson	107, 320, 321
Fisher	047, 054, 066, 104
Fuji	033, 035
Funai	000
GE	035, 060, 065, 202
Garrard	000
Go Video	232, 279, 432
Gold Star	037, 038
Gradiente	000, 406
Grundig	003, 007, 195, 347
HI-Q	047
Harley Davidson	000
Harman/Kardon	038, 075
Harwood	068, 072
Headquarter	046
Hinari	004, 352
Hitachi	000, 004, 041, 042, 065, 105, 168, 235
Ingersol	004
JVC	008, 041, 067, 208, 384, 486
Jensen	041
KEC	037, 278
KLH	072
Kenwood	038, 041, 067, 384
Kodak	035, 037
LXI	037
Lloyd's	000, 206

VCR	REMOTE CODE NO.
Loewe	004
Logik	004, 072
MEI	035
MGA	043, 061
MGN Technology	240
MTC	000, 240
Magnavox	000, 035, 081, 146, 181
Marta	037
Matsui	004, 348, 352
Matsushita	035, 162, 454
Memmorex	307
Memorex	000, 035, 037, 039, 046, 047, 048, 104, 240, 266, 307
Metz	003, 347
Minolta	042, 105
Mitsubishi	043, 061, 067, 075, 173, 443
Motorola	035, 048
Multitech	000, 072
NAD	058
NEC	036, 040, 041, 067, 104
Nikko	037
Nikon	034, 253
Noblex	240
Nordmende	297, 320, 321
Okano	346
Olympus	035, 226
Optimus	037, 048, 058, 104, 162, 432, 454
Optonica	062
Orion	004, 295, 348, 352, 479
Panasonic	035, 077, 162, 225, 226, 378, 454
Penney	035, 037, 038, 040, 042, 065, 105
Pentax	042, 065, 105
Philco	035
Philips	035, 062, 081, 110, 403
Pilot	037
Pioneer	058, 067
Portland	020
Profax	322
Profitronic	240
Protec	072
Pulsar	039, 051
Quarter	046
Quartz	046
Quasar	035, 077, 162, 454
RCA	042, 060, 065, 077, 105, 106, 149, 202
Radio Shack	000, 037
Radix	037
Randex	037
Realistic	000, 035, 037, 045, 047, 048, 062, 066, 104
Ricoh	034, 253
Runco	039
SEG	322
SEI	004
STS	042
Saba	297, 320, 321
Saisho	004
Salora	075
Samsung	045, 051, 053, 240
Sanky	039, 048
Sansui	000, 041, 067, 271

VCR	REMOTE CODE NO.
Sanyo	046, 047, 104, 240, 268
Saville	352
Scott	043, 045, 121, 164, 211, 212
Sears	000, 035, 037, 042, 046, 047, 054, 066, 104, 105
Sharp	046, 062
Shintom	072
Shogun	051, 240
Shoral	004
Siemens	003
Singer	072
Sinudyne	004
Sony	000, 011, 022, 032, 033, 034, 035, 253, 275
Sunkel	348
Sunpak	253
Sylvania	000, 035, 043, 081, 103, 110
Symphonic	000
TMK	036, 208, 240
Tatung	041
Teac	000, 041
Technics	035, 162
Teknika	000, 035, 037
Telefunken	187, 320, 321
Tansal	322
Thomas	000
Thomson	320
Toshiba	043, 045, 066, 212, 366
Totavision	037, 240
Towada	322
Unitech	240
Universum	325
Vactor	045
Vactor Research	038, 040
Video Concepts	040, 045, 061
Videosonic	240
Wards	000, 035, 042, 047, 048, 060, 062, 072, 081, 149, 161, 212, 240
XR-1000	000, 035, 072
Yamaha	038
Zenith	000, 033, 034, 039

CABLE CONVERTOR	REMOTE CODE NO.
ABC	001, 003, 007, 008, 011, 013, 014, 017
Aliegio	153
Andover	544
Antronix	022
Archer	022, 153
Balcor	056
British Telecom	105
Cable Star	056
Cablatenna	022
Cabletime	161, 271, 377, 448
Cableview	022
Century	153
Citizen	153
Clyde	086
Colour Voice	025, 031
Comtec	274
Comtronics	040
Contec	019
Cryptovision	600
Deceat	423

REMOTE CONTROL DIRECT ENTRY CODES

CABLE CONVERTOR	REMOTE CODE NO.
Eastern	002, 274
Everquest	015, 040
Filmnet	443
Focus	400
France Telecom	451
GC Electronics	056
GEC	086
Ganard	153
Gemini	015, 070, 242
General Instrument	011, 276, 476
Gold Star	040
Grundig	529
Hamlin	009, 020, 034, 259
Hitachi	011
Hytex	007
Jasco	153
Jerrold	003, 011, 012, 014, 015, 024, 276, 476
M.N.E. T.	443
MNet	443
Macon	033
Magnavox	027, 032, 334
Memorex	000
Movie Time	063
NSC	063, 070
Oak	007, 019
Optimus	021
Panasonic	000, 021, 107
Paragon	000
Philips	025, 027, 031, 153, 242, 290, 334
Pioneer	533, 753
Popular Mechanics	400
Pulsar	000
RCA	021
Radio Shack	015
Recoton	400
Regal	020, 259
Regency	002
Rembrandt	011, 070
Runco	000
SL Marx	040
Salora	382
Samsung	040
Satbox	375
Scientific Atlanta	008, 017, 477
Signal	015, 040
Signature	011
Sprucer	021
Star Sight	542
Starcom	003, 015
Stargate	015, 040
Starquest	015
Sylvania	001
TV85	063
Tandy	258
Tele+1	443
Teleservice	281
Teleview	040
Texscan	001
Timeless	274
Tocom	012, 013, 059
Toshiba	000
Tudl	286
Tusa	015
Unike	022, 153
United Artists	007
United Cable	003
Universal	022, 056, 153, 191
Videoway	250
Viewstar	027, 063, 258
Visi Cable+	461
Westminster	105
Wolsey Gaine	544
Zenith	000, 054, 525
Zentek	400

DBS	REMOTE CODE NO.
Alpha Star	772
Echostar	775
HTS	775
Hitachi	819
Hughes Network System	749
Jerrold	627
Magnavox	722, 724
Memorex	724
Panasonic	701
Philips	722, 724
Primestar	627
RCA	566
Sony	639
Toshiba	790
Uniden	724

Satellite	REMOTE CODE NO.
AST	351
Akai	515
Alba	352, 515, 613
Aldea	288
Amstrad	080, 252, 345, 461, 509, 689
Ankaro	220, 288, 369
Anitron	183
Armstrong	243
Astra	108
Avalon	396
Axis	369
BT	515, 668
Beko	189
Best	369
Boca	243, 513
Bush	067
Cambridge	344, 515
Channel Master	362
Commlink	288
Connexions	396
Conrad	607
Crown	243
DDC	362
DNT	396
Echostar	396
Farguson	067, 183, 189, 336
Fidelity	252
Finiux	108, 397
Fuba	369, 396
G-Bat	183
Galaxis	286
Gooding	571
Grundig	173, 189, 571, 750
Hinari	183
Hirschmann	397, 573
Houston	668
Huth	220, 243, 268
ITT	108
Intervision	592
JVC	515, 571
Kathrein	092, 504, 622, 658
La Sat	513, 607
Lennox	592
Lupus	369
Luxor	108, 573
Manhatten	592
Maspro	092, 336, 750
Matsui	571
Mediamarkt	248
Minerva	571
Mintec	576
Morgan's	243, 513
Newhaus	220
Nikko	360, 713
Nokia	108, 397, 573
Nordmende	362
Orbitech	501
Pace	067, 183, 336, 455, 791
Paliadium	571
Palsat	501
Philips	200, 292, 571, 750
Phonotrend	288, 592
Plasmatic	442
Proset	288
Quadral	362, 628
RFT	220, 288
Radix	396
SAT	351, 461
SEG	369
Saba	336
Salora	108
Satec	183
Schwaiger	183, 504
Seemann	396, 578, 626
Skymaster	288, 626
Sony	704
Star Trak	421
Strong	421
Sunstar	513
Tantec	336
Techni Sat	262, 501
Teleka	243, 613
Tonna	668
Triad	351
Universum	571
Vtech	351
Wisi	351, 396

DVD	REMOTE CODE NO.
Kenwood	534
Mitsubishi	521
Panasonic	490
Philips	539
Pioneer	550
RCA	522
Sony	552
Toshiba	503

Using the Remote’s VCR Buttons

When using the TV remote with a VCR, first make certain it is set to control your VCR (by the REMOTE CODE or SEARCH method).

BEGIN

1 **Set the TV/VCR/ACC mode switch to VCR** on the remote.

2 **Point the top of the remote** toward the front of the VCR (remote sensor window) when pressing the buttons.

STOP

VCR SYSTEM SWITCH
Set in the VCR position to send remote commands to the VCR.

PLAY BUTTON
Press to begin playback of a video tape.

REWIND BUTTON
Press to rewind tapes. For some VCR’s the STOP button may have to be pressed first, then REWIND. In playback mode press or press and hold the button to view the picture moving rapidly in reverse.

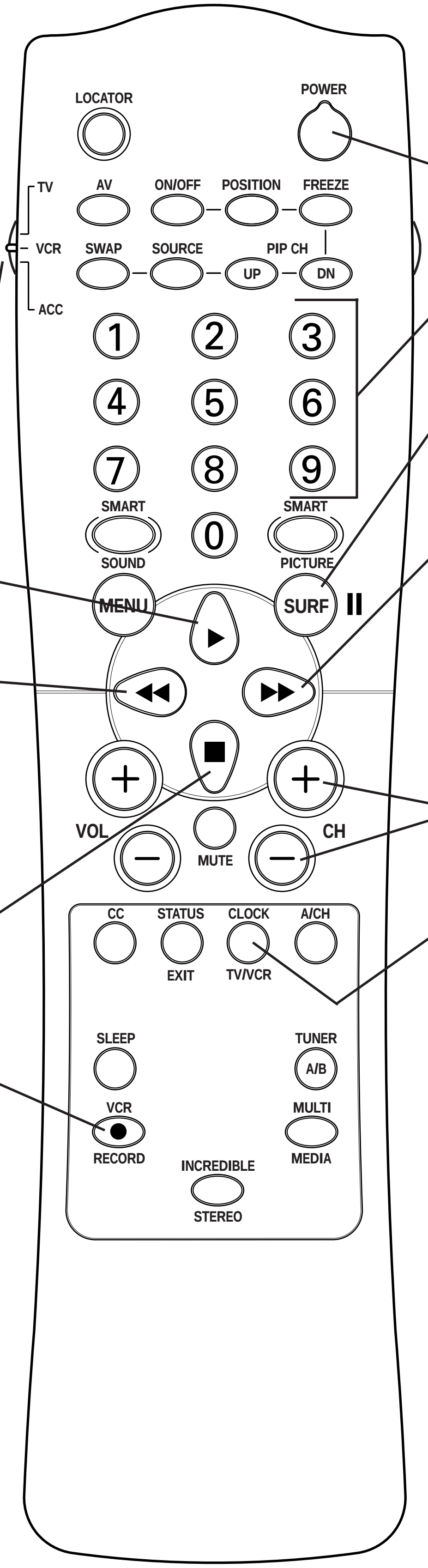
STOP BUTTON
Press to stop the motion of a tape in playback, rewind, fast forward, etc.

VCR RECORD BUTTON
Hold down the VCR/RECORD button and the PLAY button to begin a VCR recording.

Smart Help

Remember, the VCR buttons on the remote will not operate your VCR if those features are not found on your VCR remote control.

Note: All VCR functions (particularly Search, Rewind, Fast Forward, etc.) will operate the same as with the original VCR remote control provided with the VCR.


LOCATOR
POWER
TV
AV
ON/OFF
POSITION
FREEZE
VCR
SWAP
SOURCE
PIP CH
UP
DN
ACC
1
2
3
4
5
6
7
8
9
SMART
SOUND
0
SMART
PICTURE
MENU
SURF
II
VOL
CH
MUTE
CC
STATUS
CLOCK
A/CH
EXIT
TV/VCR
SLEEP
TUNER
A/B
VCR
RECORD
MULTI
MEDIA
INCREDIBLE
STEREO

POWER BUTTON
Press to turn the VCR ON and OFF.

NUMBER BUTTON
Press buttons for direct VCR channel selections.

PAUSE BUTTON
Press to temporarily stop the tape during a playback or recording. Press again to release Pause.

FAST FORWARD BUTTON
Press to rapidly advance the tape. For some VCR’s you may need to press the STOP button first, then the FAST FORWARD button. During playback, press or press and hold the button to view the picture moving rapidly in the forward direction.

CHANNEL + & – BUTTONS
Press to scan up or down through the VCR channel numbers.

TV/VCR BUTTON
Press to select the VCR position (VCR indicator on the fron of the unit will light), to view the playback of a tape, to watch a program while recording it, or to watch a TV broadcast using the VCR CH +, - or Numbered buttons. Press again to place in the TV position (VCR indicator light will go off) or to view one program while recording another program.

USING THE PIP (PICTURE-IN-PICTURE) FEATURE

Hooking up PIP

Picture-In-Picture (PIP) is the showing of two pictures on the TV screen at the same time. (One main screen picture and one small inset picture - or PIP). For your ease and convenience this TV has two separate inputs (ANTenna A and PIP ANTenna B) for your home’s Antenna and/or Cable TV system signal.

The ANT A input is primarily for the TV’ main screen picture. The PIP ANT B input is provided as a second, dedicated source option for the TV’s PIP “window” and its feature operations. The signal connected to the PIP ANT B input can be either a Split Signal Input (as described in the section on this page), or another type of external signal source (such as a satellite dish system, additional home antenna, video accessory, etc.).

See the following steps on how channels connected to the PIP ANT(enna) B Input can be shown and used within the PIP window:

BEGIN

1 **Connect your Antenna or Cable TV** signal to the single 75 ohm INPUT plug on a two-way Signal Splitter (not supplied).

Connect two lengths of RF Coaxial Cable (F-type connectors on both ends) to the two OUTPUT plugs on the two-way Signal Splitter.

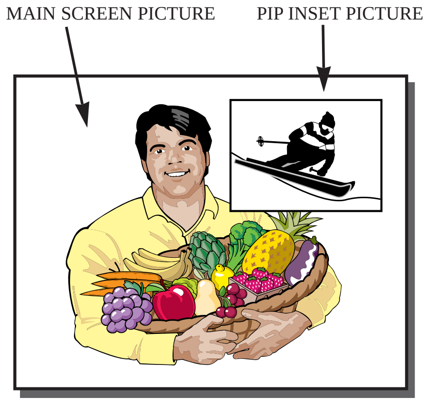
2 **Connect the twin OUTPUT plugs** on the Signal Splitter to the ANT A and PIP ANT B Inputs on the rear of the TV.

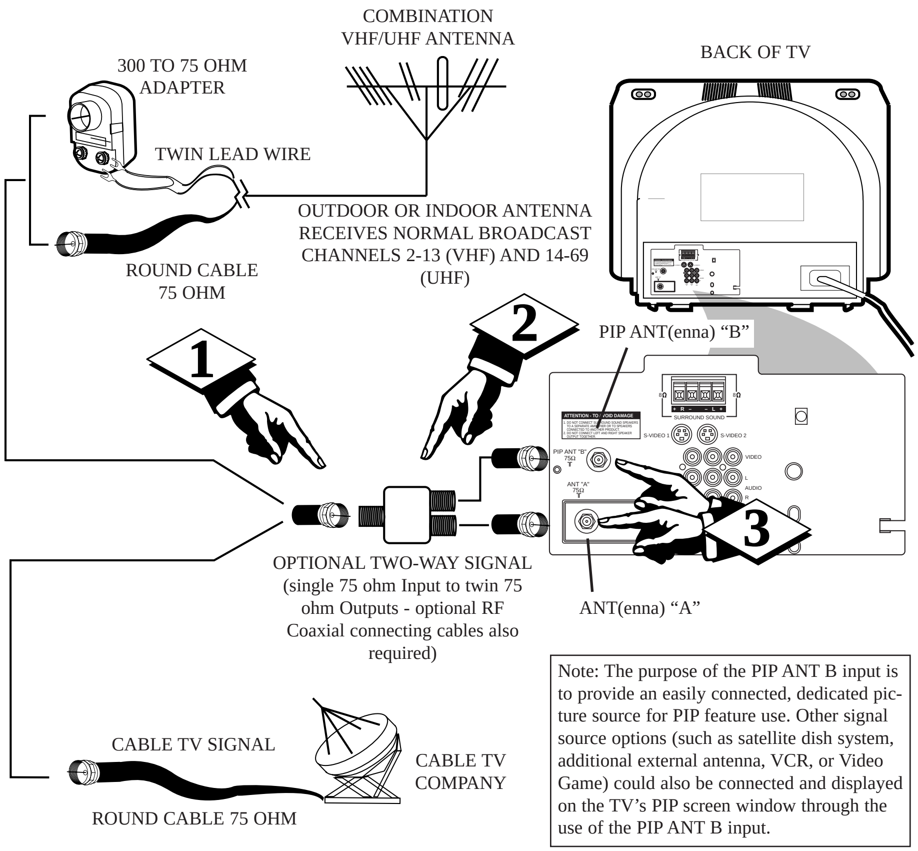
SMART HELP

For other possible PIP connections see pages 49-50 for the “More PIP Connections” section.

If you need any accessories or parts to complete the described PIP connections, contact your dealer, or our Parts Information Center at:

1-800-851-8885


MAIN SCREEN PICTURE
PIP INSET PICTURE


COMBINATION VHF/UHF ANTENNA
300 TO 75 OHM ADAPTER
BACK OF TV
TWIN LEAD WIRE
OUTDOOR OR INDOOR ANTENNA RECEIVES NORMAL BROADCAST CHANNELS 2-13 (VHF) AND 14-69 (UHF)
ROUND CABLE 75 OHM
2
1
PIP ANT(enna) “B”
SURROUND SOUND
S-VIDEO 1
S-VIDEO 2
PIP ANT "B" 75Ω
VIDEO
ANT "A" 75Ω
AUDIO
3
OPTIONAL TWO-WAY SIGNAL (single 75 ohm Input to twin 75 ohm Outputs - optional RF Coaxial connecting cables also required)
ANT(enna) “A”
CABLE TV SIGNAL
CABLE TV COMPANY
ROUND CABLE 75 OHM

Note: The purpose of the PIP ANT B input is to provide an easily connected, dedicated picture source for PIP feature use. Other signal source options (such as satellite dish system, additional external antenna, VCR, or Video Game) could also be connected and displayed on the TV’s PIP screen window through the use of the PIP ANT B input.

USING THE PIP (PICTURE-IN-PICTURE) FEATURE

CHOOSING THE PIP SOURCE

The picture for the PIP window can come through either the ANT/CABLE (PIP ANT B) or any the the external Audio/Video connections (AV 1, AV 2 or S-VIDEO 1 , S-VIDEO 2) at the rear of the TV. PIP Source simply tells the TV which one of these sources it is to show in the PIP window.

BEGIN

1 **Turn the TV and VCR** (or other device hooked to the external A/V connections) **ON.**

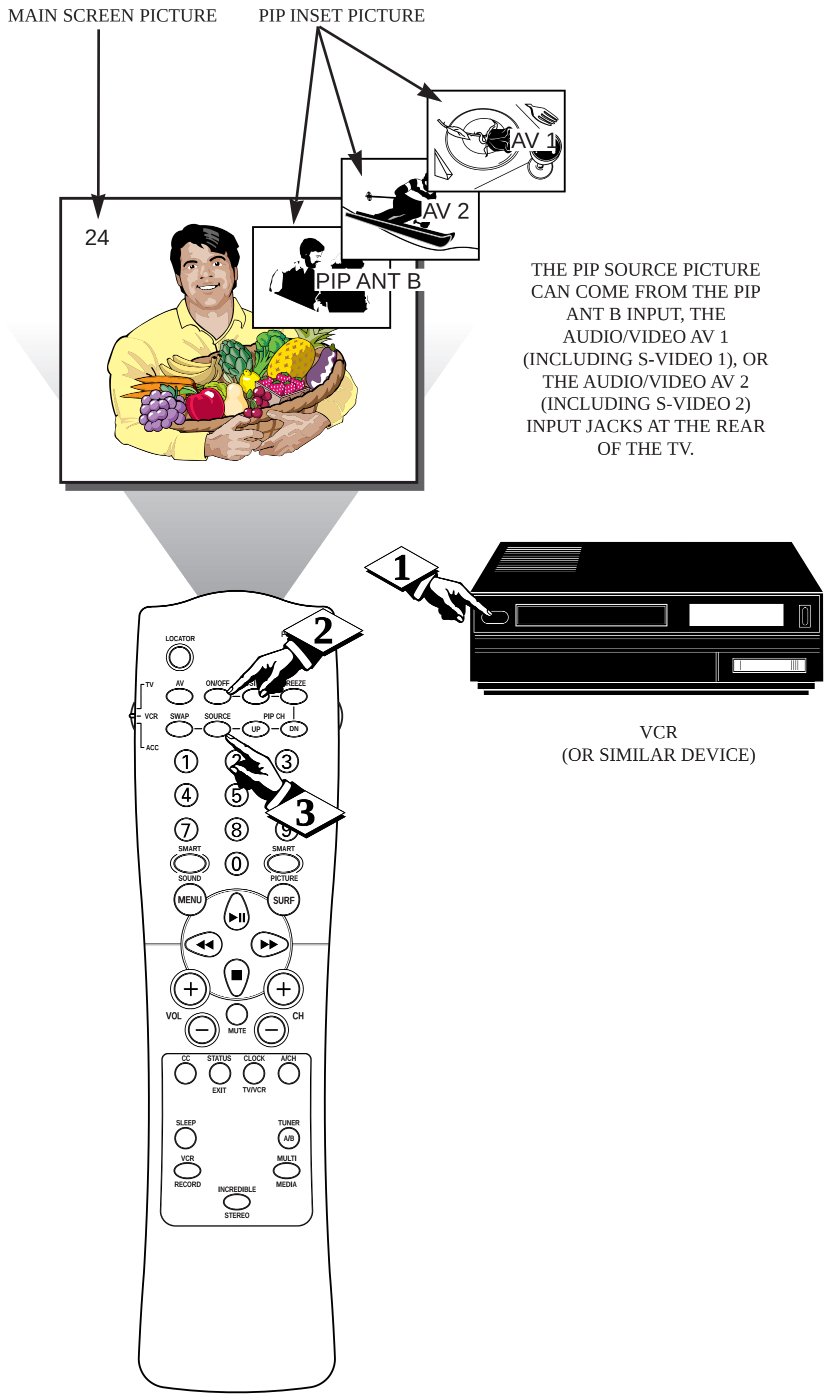
2 **Press the PIP ON/OFF button** on the remote control. The PIP window should appear in the upper right hand portion of the screen.

2 **Press the PIP SOURCE button** on the remote to toggle between the different external connections.

The PIP SOURCE may come from the following:

AV 1, AV 2, S-VIDEO 1, S-VIDEO 2: for picture signal coming from the external Audio/Video jacks on the TV. (Must have an external device hooked up at these locations.)

ANTENNA/CABLE: for a picture signal coming from the PIP ANT B Input on the back of the TV.


MAIN SCREEN PICTURE
PIP INSET PICTURE
24
PIP ANT B
AV 2
AV 1
1
2
3
LOCATOR
TV
AV
ON/OFF
FREEZE
VCR
SWAP
SOURCE
PIP CH
UP
DN
ACC
SMART SOUND
SMART PICTURE
MENU
SURF
VOL
MUTE
CH
CC
STATUS
EXIT
CLOCK
TV/VCR
A/CH
SLEEP
TUNER
A/B
VCR RECORD
MULTI MEDIA
INCREDIBLE STEREO

THE PIP SOURCE PICTURE CAN COME FROM THE PIP ANT B INPUT, THE AUDIO/VIDEO AV 1 (INCLUDING S-VIDEO 1), OR THE AUDIO/VIDEO AV 2 (INCLUDING S-VIDEO 2) INPUT JACKS AT THE REAR OF THE TV.

VCR
(OR SIMILAR DEVICE)

USING THE PIP (PICTURE-IN-PICTURE) FEATURE

REMOTE CONTROL BUTTONS

By using the PIP buttons on the remote control the PIP picture can be moved and swapped with the main screen. The PIP inset picture can also be frozen within the PIP window.

BEGIN

1 **Press the PIP ON/OFF button** to show the PIP picture. PIP appears in the upper right of the screen.

Press the PIP ON/OFF button again and the PIP picture is reduced in size.

Pressing the ON/OFF button a third time will remove the PIP picture from the screen.

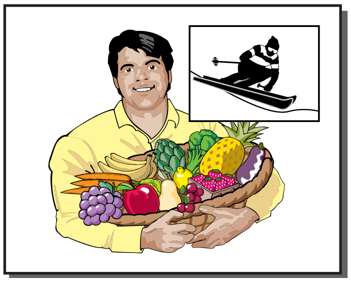
2 **Press the PIP POSITION button** on the remote to move the PIP picture to any of the four corners.

3 **Press the PIP FREEZE button** on the remote to stop the action within the PIP window. **Press the PIP FREEZE button** again to resume the normal viewing action.

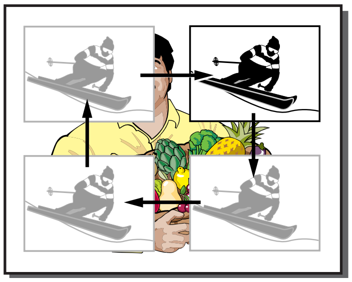
4 **Press the PIP CH(annel) UP/DN buttons** on the remote to choose different channel or a different PIP source.

5 **Press the PIP SWAP button** to swap the main screen picture with the PIP inset picture. Pressing the PIP swap button again will return the main picture to the screen.

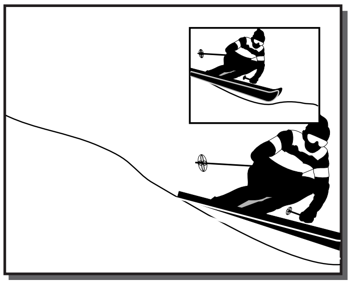
STOP



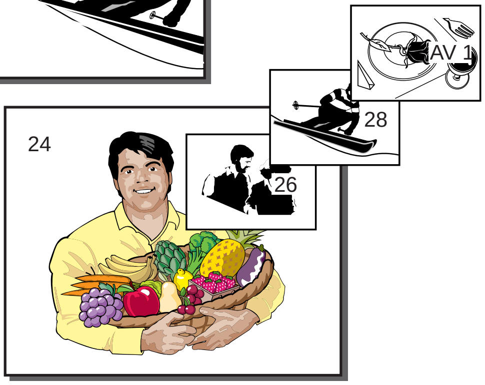
1. PIP ON/OFF



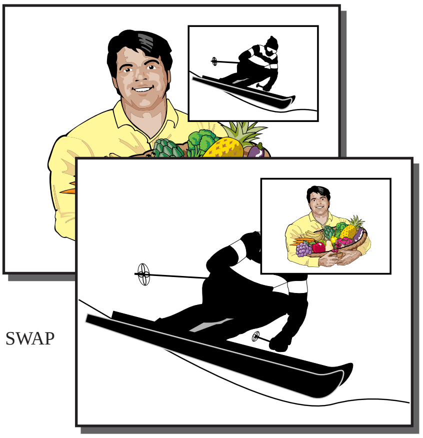
2. PIP POSITION



3. PIP FREEZE



4. PIP CHANNEL UP/DN



5. PIP SWAP

ADJUSTING THE PIP COLOR AND TINT

The Picture-In-Picture (PIP) Color and Tint controls are used to make fine tune adjustments to the color settings for PIP (when it is shown on the TV screen).

BEGIN

1. **Press the MENU button** on the remote to show the onscreen menu.

2. **Press the CURSOR DOWN ■ button** until the word **FEATURES** is highlighted.

3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left to display the **TIMER** controls.

4. **Press the CURSOR DOWN ■ button** to select the **PIP** menu.

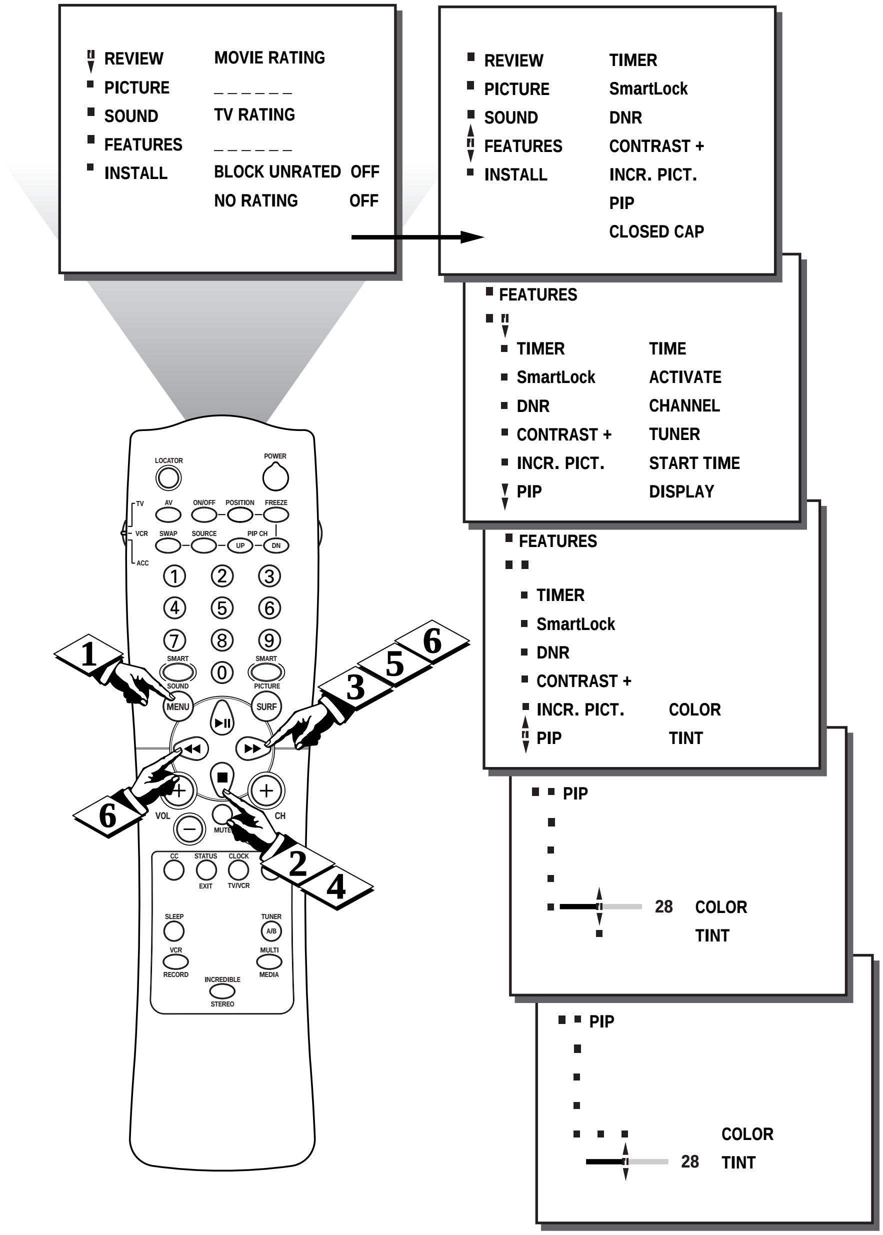
5. **Press the CURSOR RIGHT ▶▶ button again** to shift the display to the COLOR and TINT adjustment bars.

6. **Press the CURSOR RIGHT ▶▶ or the CURSOR LEFT ◀◀ buttons** to adjust the COLOR and TINT bars to the desired levels.

STOP

SMART HELP

Remember, although there are separate COLOR and TINT controls for PIP, the adjustment levels for these controls depend on the TV's main picture. For example: If the main picture screen is showing a black and white picture, PIP would also be seen in black and white (even though the PIP picture source is in color).



REVIEW
PICTURE
SOUND
FEATURES
INSTALL
MOVIE RATING
TV RATING
BLOCK UNRATED OFF
NO RATING OFF
REVIEW
PICTURE
SOUND
FEATURES
INSTALL
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
CLOSED CAP
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
TIME
ACTIVATE
CHANNEL
TUNER
START TIME
DISPLAY
FEATURES
TIMER
SmartLock
DNR
CONTRAST +
INCR. PICT.
PIP
COLOR
TINT
PIP
28
COLOR
TINT
PIP
COLOR
28
TINT
1
2
3
4
5
6
6
MENU
SURF
VOL
CH
MUTE

MORE PIP (PICTURE-IN-PICTURE) CONNECTIONS

PIP hookup with a Cable Box and VCR.

BEGIN

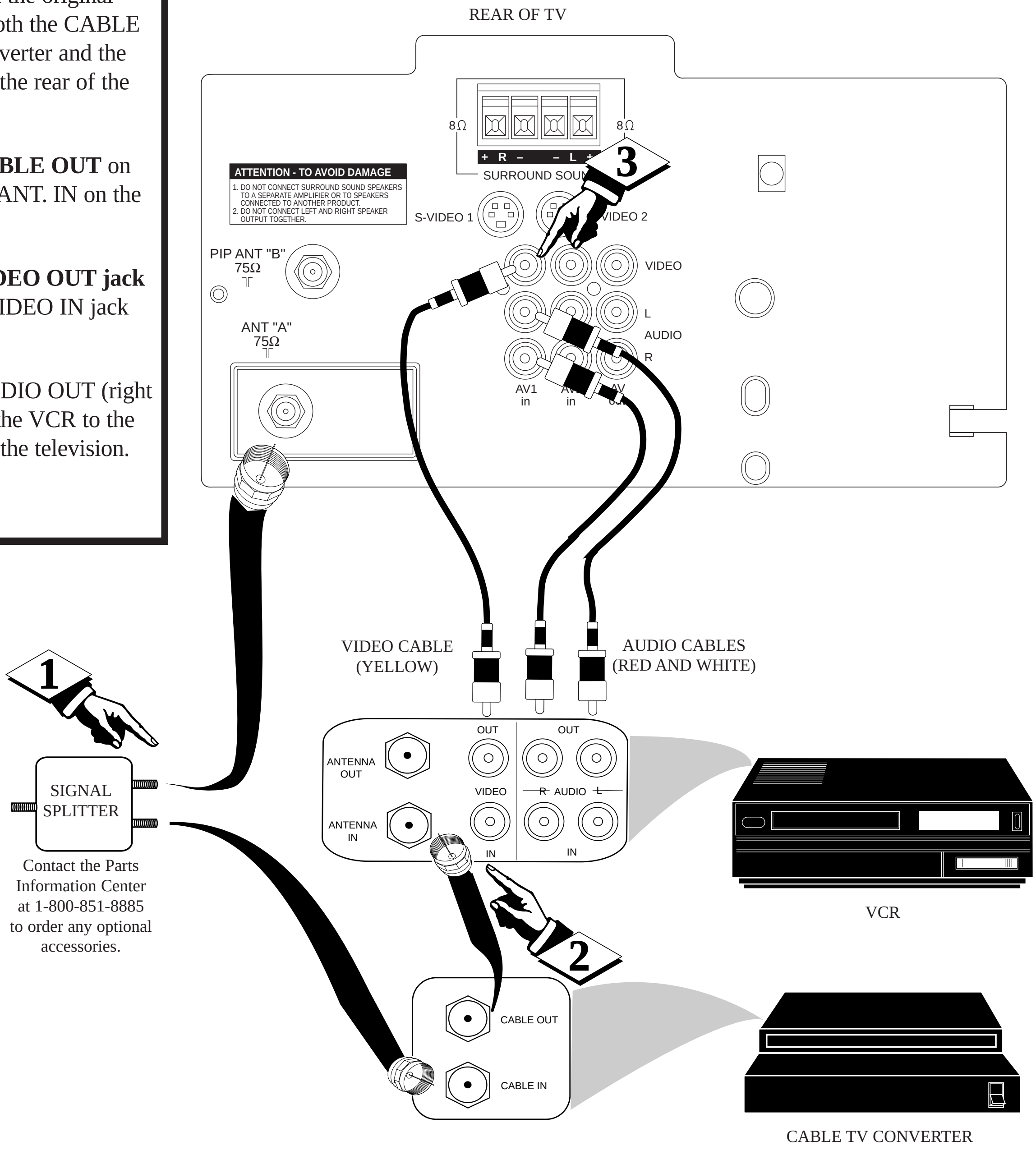
1 **First use an optional signal splitter and** connect the original cable TV signal to both the CABLE IN on the Cable Converter and the ANTENNA plug on the rear of the television.

2 **Connect the CABLE OUT** on the Converter to the ANT. IN on the VCR.

3 **Connect the VIDEO OUT jack** on the VCR to the VIDEO IN jack on the TV.

Also connect the AUDIO OUT (right and left) jacks from the VCR to the AUDIO IN jacks on the television.

STOP


REAR OF TV
8Ω
8Ω
+ R – – L +
SURROUND SOUN
ATTENTION - TO AVOID DAMAGE
1. DO NOT CONNECT SURROUND SOUND SPEAKERS TO A SEPARATE AMPLIFIER OR TO SPEAKERS CONNECTED TO ANOTHER PRODUCT.
2. DO NOT CONNECT LEFT AND RIGHT SPEAKER OUTPUT TOGETHER.
S-VIDEO 1
VIDEO 2
3
PIP ANT "B"
75Ω
ANT "A"
75Ω
VIDEO
L
AUDIO
R
AV1
in
A
in
AV
VIDEO CABLE
(YELLOW)
AUDIO CABLES
(RED AND WHITE)
1
SIGNAL SPLITTER
ANTENNA OUT
ANTENNA IN
OUT
OUT
VIDEO
R AUDIO L
IN
IN
VCR
2
CABLE OUT
CABLE IN
CABLE TV CONVERTER

Contact the Parts Information Center at 1-800-851-8885 to order any optional accessories.

MORE PIP (PICTURE-IN-PICTURE) CONNECTIONS

PIP hookup with a VCR and a Digital Video Disc Player (or similar device).

BEGIN

1 **First connect the original cable TV signal** or Antenna signal to the ANT IN jack on the back of the VCR.

2 **Connect the ANT OUT jack** on the rear of the VCR to the ANT IN jack on the rear of the Video Disc Player.

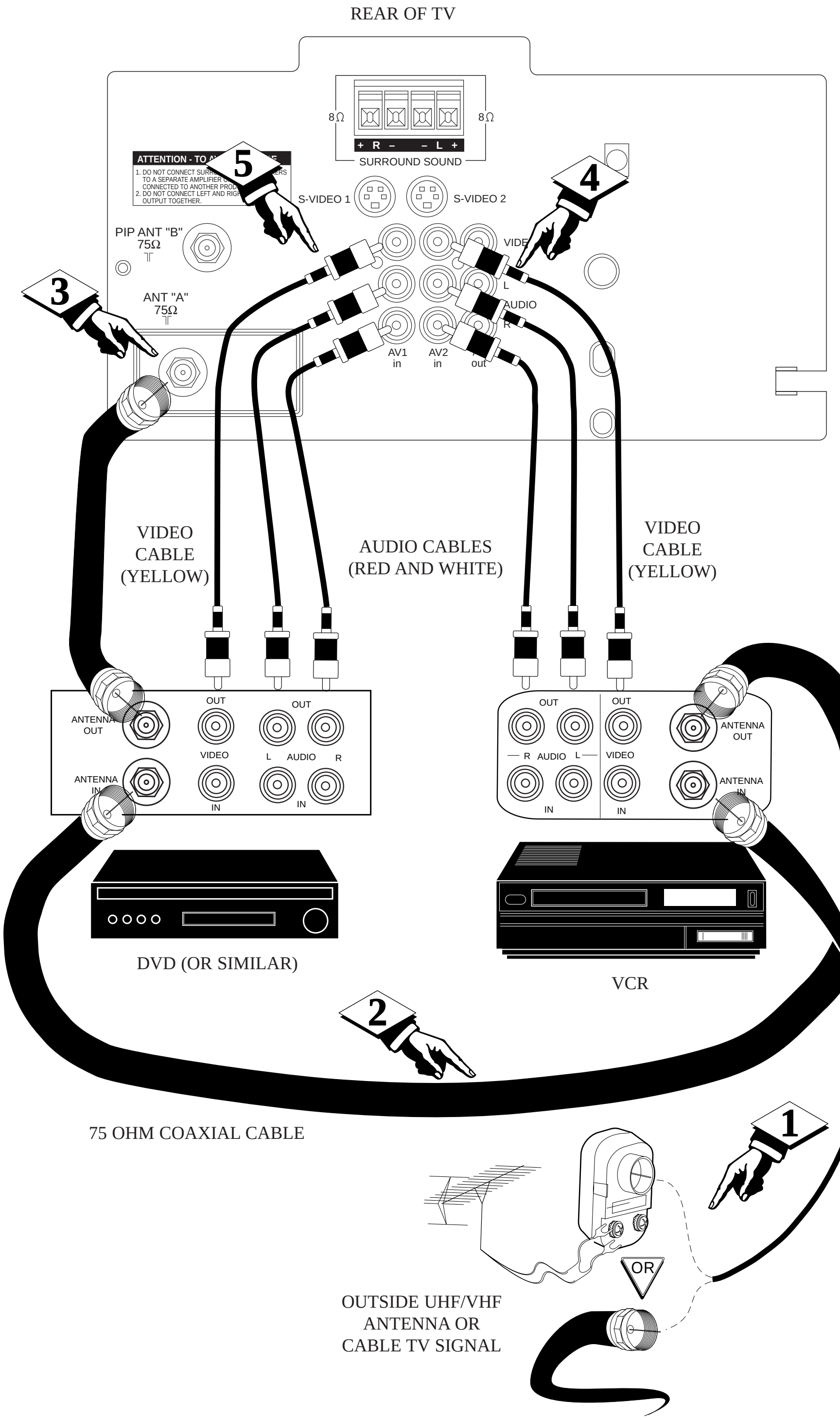
3 **Connect the ANT OUT jack** on the rear of the Video Disc Player to the ANT "A" input on the rear of the TV.

4 **Connect the yellow Video Cable** from the VIDEO OUT jack on the VCR to the VIDEO IN jack on the TV (labeled AV 1). Then, connect the red and white Audio Cables from the AUDIO OUT jacks on the VCR to the AUDIO IN jacks on the rear of the TV (labeled AUDIO L & R AV 1).

5 **Connect the yellow Video Cable** from the VIDEO OUT jack on the Video Disc Player to the VIDEO IN jack on the TV (labeled VIDEO AV 2). Then, connect the red and white Audio Cables from the AUDIO OUT jacks on the VCR to the AUDIO IN jacks on the rear of the TV (labeled AUDIO L & R AV 2).

Note: When selecting the PIP SOURCE, the VCR will appear on the AV 1 channel, and the Video Disc Player will appear on the AV 2 channel.

STOP


REAR OF TV
8Ω
8Ω
+ R – – L +
SURROUND SOUND
ATTENTION - TO A
1. DO NOT CONNECT SURR
TO A SEPARATE AMPLIFIER O
CONNECTED TO ANOTHER PROD
2. DO NOT CONNECT LEFT AND RIGH
OUTPUT TOGETHER.
S-VIDEO 1
S-VIDEO 2
PIP ANT "B" 75Ω
ANT "A" 75Ω
VIDE
L
AUDIO
R
AV1 in
AV2 in
out
5
4
3
VIDEO CABLE (YELLOW)
AUDIO CABLES (RED AND WHITE)
VIDEO CABLE (YELLOW)
ANTENNA OUT
ANTENNA IN
OUT
OUT
VIDEO
L AUDIO R
IN
IN
OUT
OUT
R AUDIO L
VIDEO
IN
IN
ANTENNA OUT
ANTENNA IN
DVD (OR SIMILAR)
VCR
2
75 OHM COAXIAL CABLE
1
OR
OUTSIDE UHF/VHF ANTENNA OR CABLE TV SIGNAL

TIPS IF SOMETHING ISN'T WORKING

Please make these simple checks before calling for service. These tips can save you time and money since charges for TV installation and adjustment of customer controls are not covered under your warranty.

CAUTION: A video source (such as a video game, Compact Disc Interactive - CDI, or TV information channel) which shows a constant non-moving pattern on the TV screen, can cause picture tube damage. When your TV is continuously used with such a source the pattern of the non-moving portion of the game (CDI, etc.) could leave an image permanently on the picture tube. When not in use, turn the video source OFF. Regularly alternate the use of such video sources with normal TV viewing.

No Power

- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert plug into outlet and push POWER button again.
- Check that outlet is not on a wall switch. Be sure fuse is not blown on AC Power strip.
- Check to be sure the system mode switch (TV/VCR/ACC) is in the correct position when using the remote control to power the set ON.

No Picture

- Check antenna connections. Are they properly secured to the TV's ANT/CABLE plug ?
- Check the TUNER control for CABLE or ANTENNA setting.
- Press the AV button on the remote to make sure the correct signal source is selected. (AV 1, AV 2, or MM 1, MM 2)

No Sound

- Check the VOLUME buttons.
- Check the MUTE button on the remote control.
- Check the SPEAKER onscreen control. OFF position will eliminate sound at the set.
- If attempting auxiliary equipment hook-ups, check audio jack connections.
- (If Applicable) Check Audio Receiver for correct operating mode.

Remote Does Not Work

- Check TV/VCR/ACC “System” switch on the remote. Move the switch to the TV position to operate the television.
- Check batteries. Replace with AA Heavy Duty (Zinc Chloride) or Alkaline batteries if necessary.
- Clean the remote and the remote sensor window on the TV.
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert plug into outlet and push POWER button again. Be sure fuse is not blown on AC Power strip.
- Check to be sure TV outlet is not on a wall switch.

TV Displays Wrong Channel or No Channels Above 13

- Repeat channel selection.
- Add desired channel numbers (CHANNEL control) into TV memory.
- Check to be sure the TUNER control is set to the CABLE option.

Cleaning and Care

- To avoid possible shock hazard be sure the TV is unplugged from the electrical outlet before cleaning.
- When cleaning the TV screen take care not to scratch or damage the screen surface (avoid wearing jewelry or using anything abrasive). Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool clear water. Use a clean dry cloth to dry the wiped surfaces.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.

GLOSSARY TO TELEVISION TERMS

Alternate Channel • When using the A/CH button on the remote control, toggles between the last two channels viewed.

Auto Programming • When activated, this feature automatically scans for all available channels. These channels come from regular antenna or cable signals (only active, broadcast stations) and they are stored into the TV's memory.

Channel Edit • Add or delete channels from the sequential tuning cycle to develop a customized list of channels you want to watch. Editing makes it easy to limit the number of channels when scanning the Channel up and down buttons or expand the number of channels available to suit your own preference.

Coaxial Cable • A single solid antenna wire normally matched with a metal plug (F-type) end connector that screws (or pushes) directly onto a 75 Ohm input found on the Television or VCR.

Closed Caption • Broadcast standard which allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired this feature uses onscreen "text boxes" to show dialogue and conversations while the TV program is in progress.

Direct Audio/Video Inputs • Located on the rear of the TV these connectors (RCA phono type plug) are used for the input of audio and video signals. Designed for use with VCRs (or other accessories) in order to receive higher picture resolution and offer sound connection options.

Identify • Method by which a remote control searches and finds an operating code for another product (such as a VCR or Cable Converter). Once the code has been "identified" then the TV remote can operate and send commands to the other product.

Onscreen Displays (OSD) • Refers to the wording or messages generated by the television (or VCR) to help the user with specific feature controls (color adjustment, programming, etc.).

Menu • An onscreen listing of feature controls shown on the Television screen that are made available for user adjustments.

Multichannel Television Sound (MTS) • The broadcast standard that allows for stereo sound to be transmitted with the TV picture.

Programming • The procedure of adding or deleting channel numbers into the Television's memory circuits. In this way the Television "remembers'' only the locally available or desired channel numbers and skips over any unwanted channel numbers.

Remote Sensor Window • A window or opening found on the Television control panel through which infrared remote control command signals are received.

Setup Mode • Automatic feature control settings made by the TV. Designed for first time setup and use. Settings for signal connections (antenna or cable TV), plus channel program memory are held in the TV's memory (even if the set is unplugged and moved to a new location.)

Second Audio Program (SAP) • Another or additional audio channel provided for in the Multichannel Television Sound (MTS) broadcast standard. The most frequently proposed use for SAP is the simultaneous bilingual broadcast of TV program material.

SmartClock • An accurate digital clock that's always right. By monitoring the vertical blanking interval of PBS broadcasts, TV's equipped with SmartClock can automatically set the right time of day and maintain it through brown-outs, power failures, and even daylight savings time adjustments.

SmartLock • Prevents young children from accessing particular broadcast channels (or using audio/video inputs) by electronically locking them out. Undesired channels are blocked out by entering a unique four-number code, which you choose when programming the feature. Blocked-out channels are just as quickly restored with the same process.

Status/Exit • Allows the user to quickly confirm what channel number is currently being viewed. Status/Exit can also be used to clear the Television of on screen displays or information (rather than waiting for the displays to "time out" or automatically disappear from the screen).

Twin Lead Wire • The more commonly used name for the two strand 300 Ohm antenna wire used with many indoor and outdoor antenna systems. In many cases this type of antenna wire requires an additional adapter (or balun) in order to connect to the 75 Ohm Input terminals designed into the more recent Televisions and VCRs.

Two Tuner PIP • This TV has two separate tuners (and two separate tuner inputs) which allow you to watch one show with one tuner, while scanning other channel with the second tuner in the PIP window.

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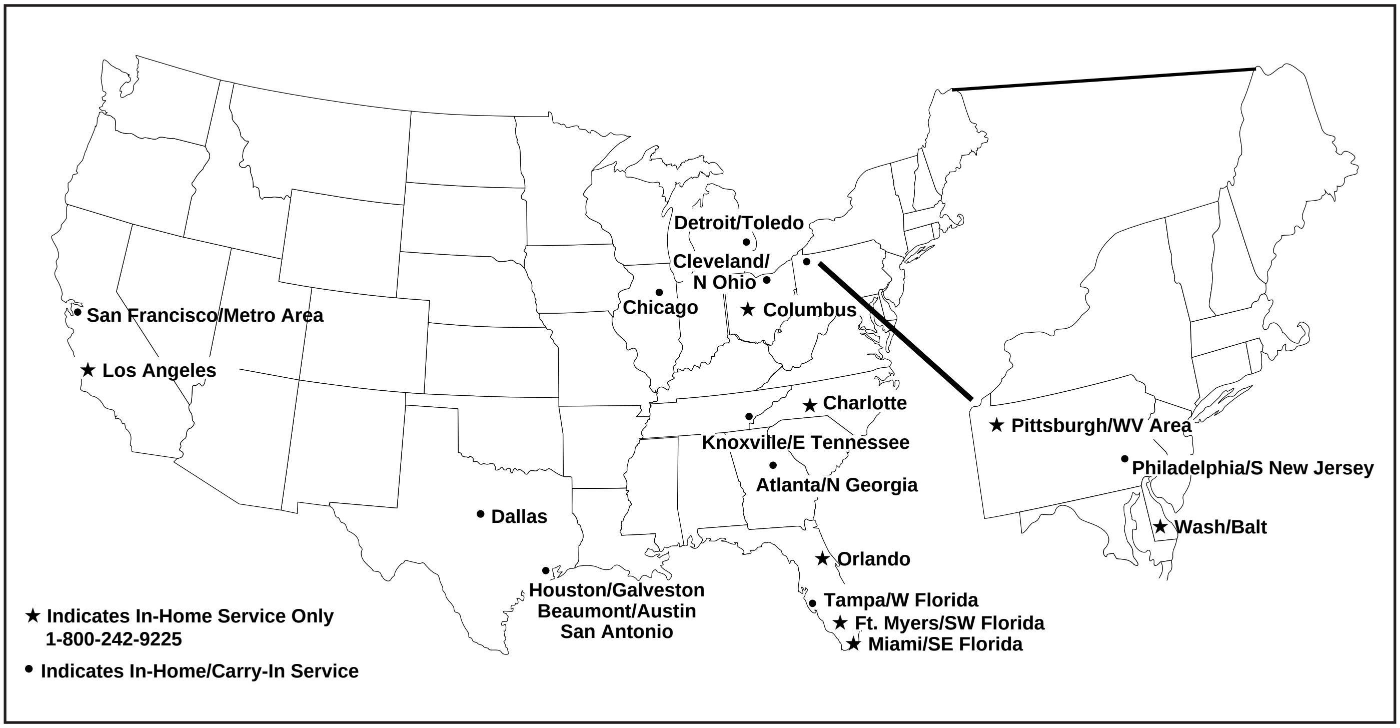
* Information contained in Quick-Use (Q/U) Guide-page listed.

Philips Consumer Electronics Company

Factory Service Center Locations


Detroit/Toledo
Cleveland/ N Ohio
Chicago
★ Columbus
• San Francisco/Metro Area
★ Los Angeles
★ Charlotte
★ Pittsburgh/WV Area
Knoxville/E Tennessee
Philadelphia/S New Jersey
Atlanta/N Georgia
Dallas
★ Wash/Balt
★ Orlando
Houston/Galveston Beaumont/Austin San Antonio
Tampa/W Florida
★ Ft. Myers/SW Florida
★ Miami/SE Florida
★ Indicates In-Home Service Only 1-800-242-9225
• Indicates In-Home/Carry-In Service

NOTE: If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

NOTA: Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d`achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

NOTA: Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product

Please contact Philips at	1-800-661-6162 (French speaking)
	1-800-363-7278 (English speaking)

Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile

Veuillez contacter philips á:	1-800-661-6162 (Francophone)
	1-800-363-7278

En el Canadá

Cómo recibir servicio efficiente para su producto, en persona, por correo o a domicillo

Favor de comunicarse con Philips al:	1-800-661-6162 (francófono)
	1-800-363-7278 (anglófono)

MAC2929 1/99

EL4482-3 Rev. AA
3135 015 07541

QUALITY SERVICE IS AS CLOSE AS YOUR TELEPHONE! SIMPLY LOOK OVER THE LIST BELOW FOR THE NUMBER OF A FACTORY SERVICE CENTER NEAR YOU. YOUR PRODUCT WILL RECEIVE EFFICIENT AND EXPEDIENT CARRY-IN, MAIL-IN, OR IN-HOME SERVICE, AND YOU WILL RECEIVE PEACE OF MIND, KNOWING YOUR PRODUCT IS BEING GIVEN THE EXPERT ATTENTION OF PHILIPS' FACTORY SERVICE. AND, IF THE PHONE NUMBER LISTED FOR YOUR AREA IS LONG DISTANCE, CALL 1-800-242-9225 FOR FACTORY SERVICE.

COMMENT OBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CONTACTER LE CENTRE DE SERVICE AUX CONSOMMATEURS LE PLUS PROCHE POUR SAVOIR L'EMPLACEMENT DE CES DÉPÔTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) DU CENTRE DE SERVICE LOCAL.

CÓMO OBTENER UN SERVICIO OPORTUNO Y EFICIENTE POR CORREO, EN CASA O EN PERSONA PARA SU PRODUCTO A TRAVÉS DE UN CENTRO PHILIPS DE SERVICIO. MAS DE 600 SITIOS POR TODO EL PAIS PARA LA RECEPCION DE PRODUCTOS NECESITADOS DE REPARACIONES: COMUNICARSE CON EL CENTRO DE SERVICIO DE FABRICA MAS CERCANO PARA ESTOS LUGARES DENTRO DE UN RADIO DE 80 A 120 KM (50 A 75 MILLAS) DEL CENTRO DE SERVICIO LOCAL.

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FLORIDA
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(713) 682-3990

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Itasca, IL 60143
(630) 775-0990

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(423) 584-6614

MID-ATLANTIC
Philips Factory Service Mid-Atlantic
352 Dunks Ferry Rd.
Bensalem, PA 19020
(215) 638-7500

MAC2929 1/99

LIMITED WARRANTY

COLOR TELEVISION

90 Days Free Labor

One Year Free Replacement of Parts (Two Years Free Replacement on Color Picture Tube)

This product can be repaired in-home.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For 90 days thereafter,* all parts will be repaired or replaced free, and labor is free. From 90 days to one year from the day of purchase, all parts will be repaired or replaced free, but you pay for all labor charges. From one to two years from the day of purchase, you pay for the replacement or repair of all parts except the picture tube, and for all labor charges. After two years from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Contact a Philips factory service center (see enclosed list) or authorized service center to arrange repair.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

1-800-894-5463
1-800-363-7278

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # ______________________________

SERIAL # ______________________________

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Consumer Electronics Company, P.O. Box 2976, Longview, Texas 75606, (903) 242-4800

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